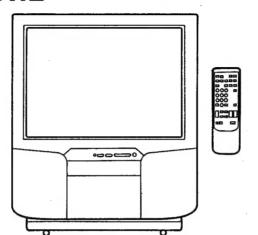
### KP-41EXR96

### **SERVICE MANUAL**



US Model
Chassis No. SCC-F19H-A
Canadian Model
Chassis No. SCC-F23C-A

**AP** chassis

MODELS OF TH	E SAME SERIES
KP-41EXR96	KPR-46EXR15/53EXR15
KPR-41EXR95	
KPR-46XBR15/53XBR15	

### **SPECIFICATIONS**

Structure Projection system Screen and projector, rear projection type 3 picture tubes, 3 lenses, horizontal in-line

system

Picture tube

7 inch high-brightness monochrome tubes

(5.5 raster size), with optical coupling and

liquid cooling system

Projection lenses

High performance, larger-diameter

hybrid lens F 1.0

Screen material

Plastic lenticular, Plastic fresnel

Projected picture size Screen brightness

41 inches (measured diagonally) 2,000 cd/m<sup>2</sup>

Television system Channel coverage American TV standards VHF: 2-13

UHF: 14-69

CABLE TV: 1-125

Antenna

75 ohm external antenna terminal for VHF/UHF

Input jacks VIDEO IN 1

S VIDEO IN (4-pin mini DIN)

Y: 1 Vp-p, 75-ohms unbalanced,

sync negative

C: 0.286 Vp-p (Burst signal)

75-ohms

Video (phono jacks): 1 Vp-p, 75-ohms

unbalanced, sync negative

Audio (phono jacks):

500 mVrms (100% modulation)

Impedance: 47 kilo-ohms

VIDEO IN 2 and 3

Video (phono jacks): 1 Vp-p, 75-ohms

unbalanced, sync negative

Audio (phono jacks):

500 mVrms (100% modulation) Impedance: 47 kilo-ohms

- Continued on next page -

COLOR REAR VIDEO PROJECTOR SONY.



**Output jacks** 

MONITOR OUT

**S VIDEO MONITOR OUT** 

(4-pin mini DIN)

Y:1 Vp-p, 75-ohms

unbalanced, sync negative

Video (phono jacks): 1Vp-p, 75-ohms

unbalanced, sync negative Audio (phono jacks): 500mVrms

(100% modulation)

Impedance: 10 kilo-ohms

**AUDIO (VAR) OUT** 

(phono jacks)

More than 900mVrms (100% modulation) at the maximum volume setting (variable)

Impedance: 5kilo-ohms

**AUDIO OUT** 

(phono jacks)

900mVrms (100% modulation)

Impedance: 5kilo-ohms

Two-way coaxial speaker system Speaker

Woofer 130 mm (5inches) diameter Tweeter 35 mm (1.4inches) diameter Speaker output

16Ω NORM, 30W MAX 50W CENTER SPEAKER input

Power requirements

Dimensions (w/h/d)

Optional accessories

120 V AC. 60 Hz Power consumption

310W (max)

12W×2

7W (standby mode)

930×1.185×505 mm

 $(365/8 \times 463/4 \times 20 \text{ inches})$ 

Weight 72 kg (138 lb 12 oz) Supplied accessories

Remote Commander RM-Y112A (1)

with 2 size AA (R6)

**EVEREADY** batteries

U/V mixer EAC-66

Connecting cable **RK-74A** 

VMC-810S/820S

YC-15V/30V

VCR Tray SU-PJT1

Design and specifications are subject to change without notice.

### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### **WARNING!!**

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

### SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED INTHIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### (ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.

LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE A SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

### SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it.
   Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

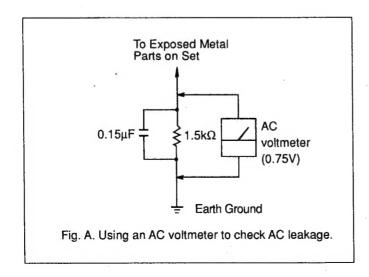
### **LEAKAGE**

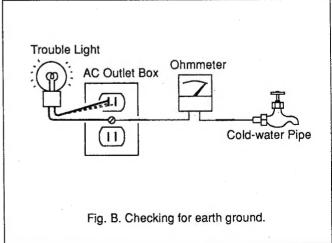
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a coldwater pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)





### **TABLE OF CONTENTS**

Sec	ction	<u>Title</u>	Page S	ection	<u>Title</u>	Page
1.	GEN	ERAL	4	. SAF	ETY RELATED ADJUSTMENTS	•
	Unpa	cking and Viewing Area	5	4-1.	Safety Related Adjustments	53 .
	Locat	ing Cntrols and Connectors	5			
	Using	the On-Screen Menus ·····	8 . 5	. CIR	CUIT ADJUSTMENTS	
		sting Color Registration (CONVERGENCE)		5-1.	Electrical Adjustment by Remote Comm	ander ····· 57
	Settir	ng CABLE ON or OFF	11	5-2.	A Board Adjustments	59
	Prese	tting TV Channels ······	·· 12	5-3.	DS Board Adjustments	
	Watc	hing TV Programs ·····	·· 15	5-4.	P1 Board Adjustments	62
	Using	g Closed Caption ·····	··16			
	Using	Convenient Features ·····	·· 16 6		GRAMS	
	Selec	ting a Picture and Sound Mode ·····	17	6-1.	Block Diagram (1) ·····	64
	Watc	hing Two Pictures at Once (PIP) ·····	·· 18	6-2.		67
	Adjus	sting the Projection TV	20	6-3.	Block Diagram (3) ······	
	Custo	omizing the Screen Display	·· 24	6-4.	Frame Schematic Diagram ······	
	Using	g Timer-Activated Functions	·· 26	6-5.	Circuit Boards Location	78
	Settir	ng FAVORITE CHANNEL	30	6-6.		
	Using	g the Pre-Programmed Remote Commander ·······	·· 31		• A Board·····	80
	Troul	ble Shooting·····	34		• U Board·····	
					• UT Board·····	90
2.	DISA	ASSEMBLY			• D Board·····	92
	2-1.	H2 Board Removal	35		•G Board·····	101
	2-2.	D Board Removal ·····			•H1 Board	102
	2-3.	H1 Board Removal			• H2 Board ·····	103
	2-4.	Reflection Mirror Removal			• DS Board ·····	103
	2-5.	Back Cover Removal ·····			•CB Board······	104
	2-6.	Main Chassis Assy Removal ·····			•V Board·····	104
	2-7.	Service Position			•CG Board·····	105
	2-8.	Sub Connector Panel Removal·····			• ZB Board ·····	
	2-9.	Main Connector Panel Removal·····			•CR Board·····	
		U Bracket Removal			• ZG Board ·····	
		V Board Removal			• ZR Board ·····	
		N Braket Removal······			•S Board ·····	
		G Board Removal			• N Board·····	
		Mirror Cover Removal ·····			• X2 Board ·····	
	2-15	Chassis Assy Removal·····	42		• M Board	
		Picture Tube Removal			•El Board ······	
		High-Voltage Cable Installtion and Removal			• E2 Board ·····	
		Connector Cable			• Y2 Board ······	
	2-10.	Connector Cable	***		•P1 Board······	
3	SET	UP ADJUSTMENTS		6-7	Semiconductors ······	
٥.		Focus Lens Adjustments ·····	45	0-7.	Semiconductors	157
	3-2.	Deflection Yoke Position Adjustments		FXI	PLODED VIEWS	
	3-3.			7-1.		139
	3-4.			7-2.		
	3-4.	De-Focus Adjustment (Blue)			Chassis	
	3-5. 3-6.	Green Picture Adjustments			Picture Tube	
	3-0. 3-7.	Green and Red Registration Adjustments		/ <del>+</del> .	Tionite Into	142
	3-8.			, FI	ECTRICAL PARTS LIST	143
	3-9.	Registration Chek			evi, done i rati v bio i	143
		White Balance Adjustments				

### **SECTION 1** GENERAL

the Operating Instruction Manual. The page numbers of the The operating instructions mentioned here are partial abstracts from

Operating Instruction Manual remein as in the manual.

# Chapter 1: Setting Up

Unpacking and Viewing Area

Carefully follow the instructions on the outside of the packing carton to unpack the projection TV.

- The supplied accessories are packed in the bottom of the carton.
   Be sure not to throw them away.
- Keep the original carton and packing materials to safely transport the projection TV in the future.

Check to make sure that the following is included:

with 2 size AA (R6) EVEREADY batteries Universal Remote Commander

If the Remote Commander is missing, contact your dealer.

Place the projection TV in a cool, dry place where the ventilation openings at the sides are not blocked.

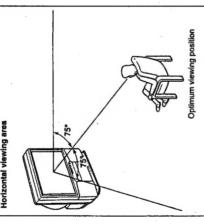
Horizontal viewing area areas shown below.

Plug the projection TV power cord into an AC 120 volt power outlet.

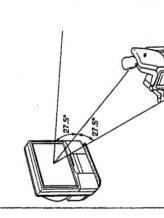
For further precautions, see p. 2.

### Optimum viewing area

For the best picture quality, try to position the projection TY so that you can view the screen from within the



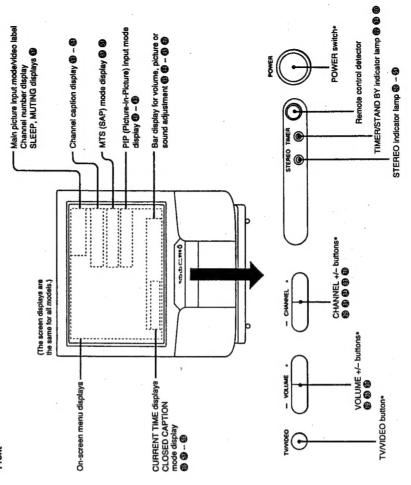
Vertical viewing area



For details, see the pages indicated by the numbered black circles

**Locating Controls and Connectors** 

Front



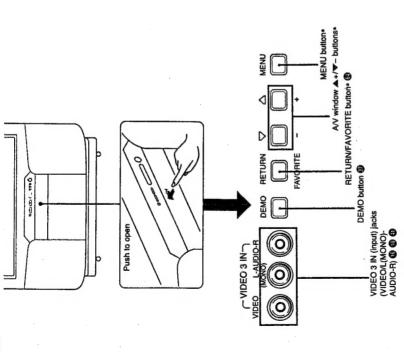
Buttons with the same function are also located on the Remote Commander (p. 10).

Optimum viewing position

### Locating Controls and Connectors

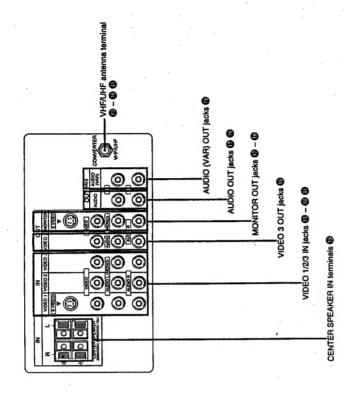
Front inner panel

Rear



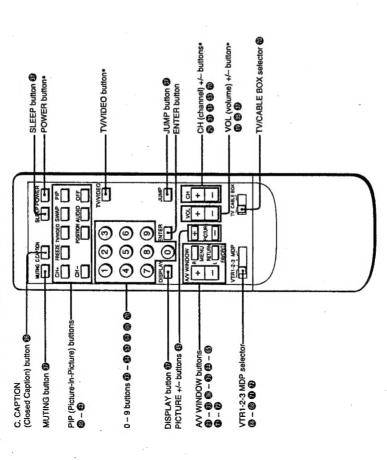
Buttons with the same function are also focated on the Remote Commander (p. 10).

Note
The instructions in this manual are based for the most part on operating the projection TV with the Remote Commander. You can also use the buttons on the projection TV that have the same function.



### Locating Controls and Connectors

Remote Commander RM-Y112A (with the video control cover closed)



\* Buttons with the same function are also located on the projection TV (p. 7).

If the TV/CABLE BOX selector is set to CABLE BOX, the Remote Commander is able to control a connected cable box, not the projection TV (p. 70). Set the selector to TV to control the projection TV with the Remote Commander.

Remote Commander (with the video control cover open)

STANDARD button @ @ @ AVWWINDOW

+ MENU
- RETURN
- THE H

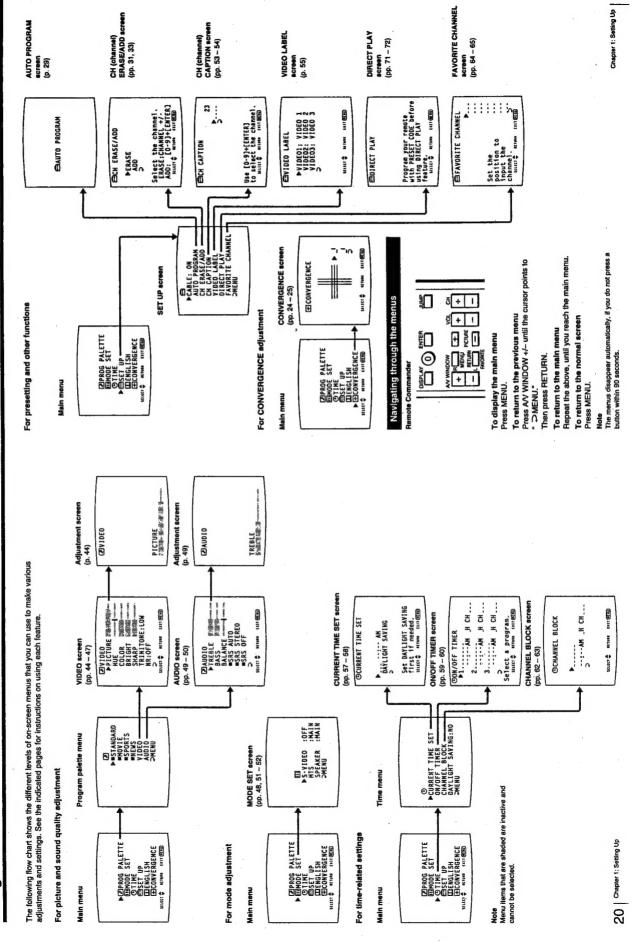
- L

RETURN
- THE H

- T 劉 CODE SET STANDARD ⊚⊚⊚⊙⊙⊙ - THE STATE OF THE Opening the video control cover Video operating buttons 🕲 – 🕲 🗗 Slide the cover down

10 Chapter 1: Setting Up

# Using the On-Screen Menus



To return to the normal screen, Press MENU.	Notes conserving meanus  - During PIP (Picture-In-Picture) mode, the on-screen menus may overlap the window picture.  - The menus disappear automatically, if you do not press a button within 90 seconds.							
		Spanish menu						
Press RETURN. The language is selected.	RETURN	l			•	3		
H. Follow these instructions to nuch, or back to English.	TV.			DRAGG PALETTE BIMODE SET OTINE COTINE COSE TO THE COSE	ENCIA CINCENCE CENCE	points to "ENGLISH."	OPROG PALETTE	THE RELIEF
Changing the menu language The menu language is factory-set to ENGLISH. Follow these instructions to change the menu language to Spanish or French, or back to English.	Press POWER to turn on the projection TV. TIMENSTAND BY indicator blinks until the picture appears. POWER		Press MENU. The main menu appears.			Press AV WINDOW +/- until the cursor points to "ENGLISH." Then press RETURN. The inguage display funs red.	AV WINDOW  RETURN  THE CONTROL OF TH	
WITHG CLUTTON SLEEP POWER	CH CHEEF	<b>@</b> @	ğ		VTRI-29 MID V CARE BOX			

(上) ENGLISH (上) CONVERGENCE STIET 章 NETWORK LETT (新年)

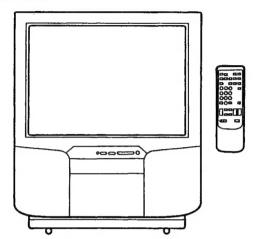
Note Certain parts of the "ESPAÑOL" and "FRANÇAIS" menus remain in English.

DFRANÇAIS ECONVERGENCE STUCT \$ NT NEW PTT (EED)

Press AVV WINDOW +/- to select the language.
Each time you press AV WINDOW +/-, the "ESPANOL," "FRANÇAIS" and "ENGLISH" menus appear.

### **KP-41EXR9**

### **SERVICE MANUAL**



**US Model** Chassis No. SCC-F19H-A Canadian Model

AP CHASSIS

MODELS OF TH	E SAME SERIES
KP-41EXR96	KPR-46EXR15/53EXR15
KPR-41EXR95	,
KPR-46XBR15/53XBR15	

### **SPECIFICATIONS**

Structure

Projection system

Screen and projector, rear projection type 3 picture tubes, 3 lenses, horizontal in-line

system

Picture tube

7 inch high-brightness monochrome tubes (5.5 raster size), with optical coupling and

liquid cooling system

Projection lenses

High performance, larger-diameter

hybrid lens F 1.0

Screen material Projected picture size

Plastic lenticular, Plastic fresnel 41 inches (measured diagonally)

Screen brightness Television system 2,000 cd/m<sup>2</sup>

Channel coverage

American TV standards

VHF: 2-13

UHF: 14-69

**CABLE TV: 1-125** 

Antenna

75 ohm external antenna terminal for VHF/UHF

Input jacks VIDEO IN 1

S VIDEO IN (4-pin mini DIN) Y: 1 Vp-p, 75-ohms unbalanced,

sync negative

C: 0.286 Vp-p (Burst signal)

75-ohms

Video (phono jacks): 1 Vp-p, 75-ohms

unbalanced, sync negative

Audio (phono jacks):

500 mVrms (100% modulation)

Impedance: 47 kilo-ohms

VIDEO IN 2 and 3

Video (phono jacks): 1 Vp-p, 75-ohms

unbalanced, sync negative

Audio (phono jacks):

500 mVrms (100% modulation) Impedance: 47 kilo-ohms

- Continued on next page -

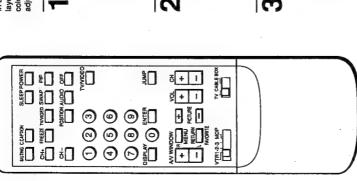


996493801

COLOR REAR VIDEO PROJECTOR SONY

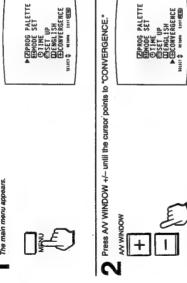


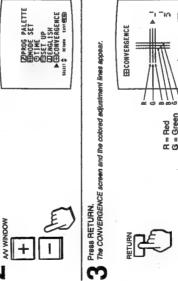
# Adjusting Color Registration (CONVERGENCE)

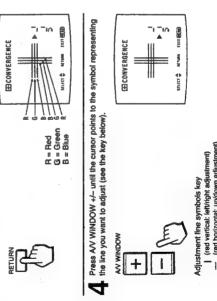


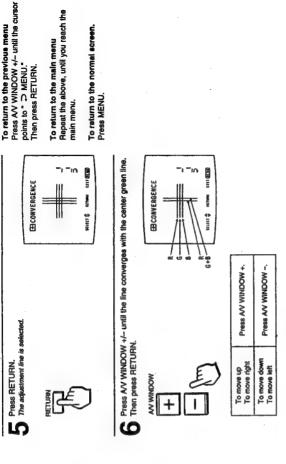
in three color ENCE

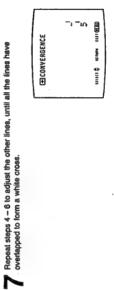
rage appears on the screen in uner ers are not in proper registration, the prrect this, perform the CONVERGE		PEPPROS PATE  PENDES SET  PEND
n a projection if v, the projection tube image appears on the screen in times typers (red, green and blue). If these layers are not in proper registration, the store is poor and the picture blurs. To correct this, perform the CONVERGE idjustment.	Press MENU. The main menu appears.	



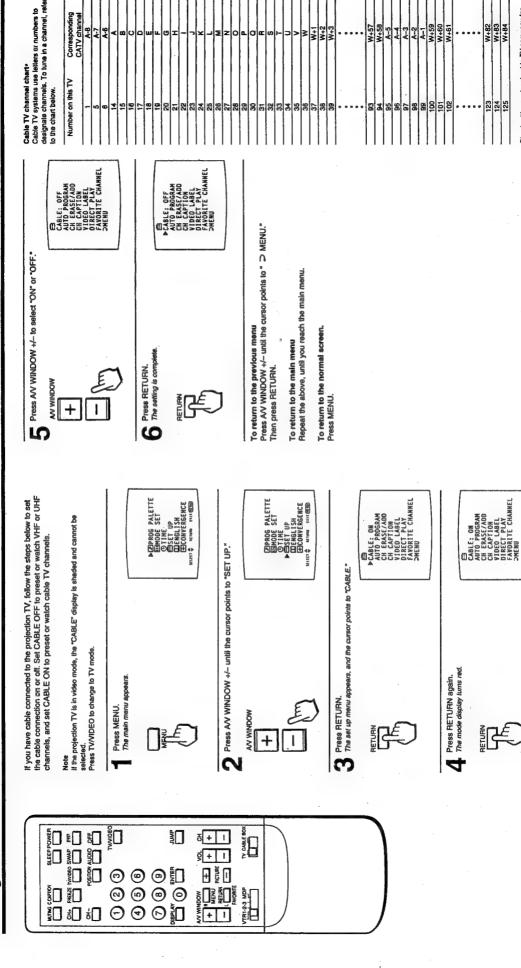








# Setting CABLE ON or OFF



Corresponding CATV channel A-8 A-7

Check with your local cable TV company for more complete information on the available

W+82 W+83 W+84

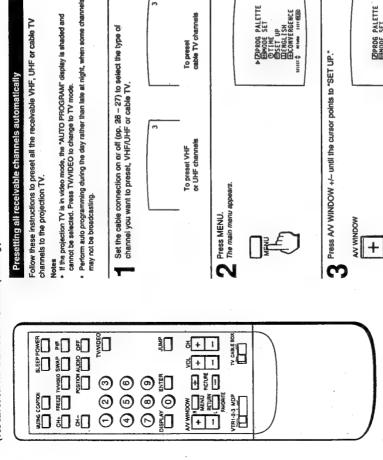
shannels.

• The designation of the ceble TV channels conforms to the EIA/NCTA recommendation

# Presetting TV Channels

By presetting TV channels to the projection TV, you can select channels by pressing CH (CHANNEL) +/-. (You can select VHF channels 2 – 13 without presetting.)

Receivable channels for this projection



To preset cable TV channels

6 Press RETURN.

PUDPROG PALETTE
HIPHODE SET
OTINE
DETINE
DENGLISH
ECONVERGENCE
HISTORY
HISTORY

CABLE; ON CABLE; ON CABLE; ON CH ERASE/ADD CH CAPTION VIDE CABLE PLAY FAVORITE CHANNEL SHEKU CABLE: ON ALTO PROGRAM CA ERASE/ADD CA CAPTION VIDEO LABEL PLAY FAVORITE CHANNEL SHEND  ${f 5}$  Press AV WINDOW +/- until the cursor points to "AUTO PROGRAM." Press RETURN.
The set up menu appears. 

To return to the previous menu

Press AV WINDOW +/- until the cursor
points to " ... MENU."

Then press RETURN.

presetting Press the 0 – 9 buttons and ENTER.

To select TV channels without

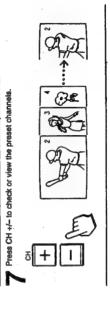
VHF: 2 -- 13 UHF: 14 -- 69 Cable: 1 -- 125

To return to the main menu Repeat the above, until you reach the

main menu.

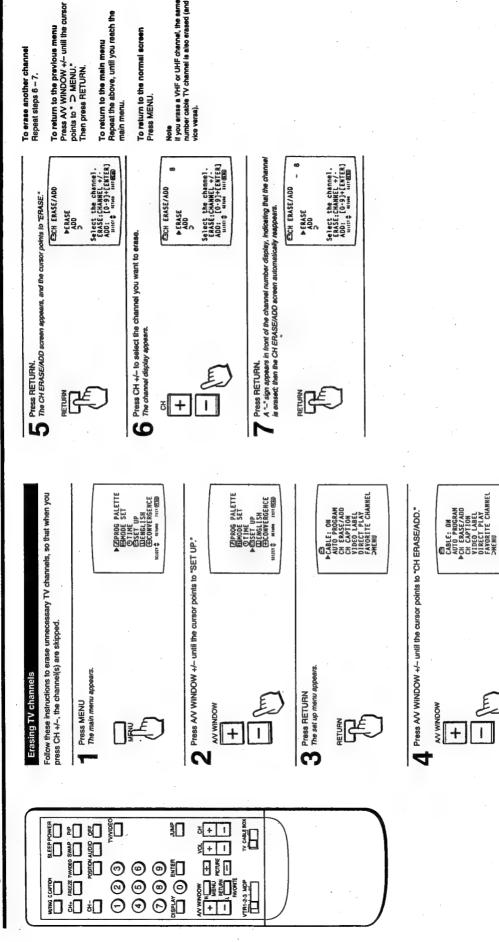
To return to the normal screen. Press MENU.

\*AUTO PROGRAM" appears on the screen and receivable channels (other than the channess takesby presel are presel in turnanical sequence. The channels previously the projection of the projection TV's memory. 
When no more channels are found, auto programming stops and the screen returns. When no more channels are for automatically to the set up me

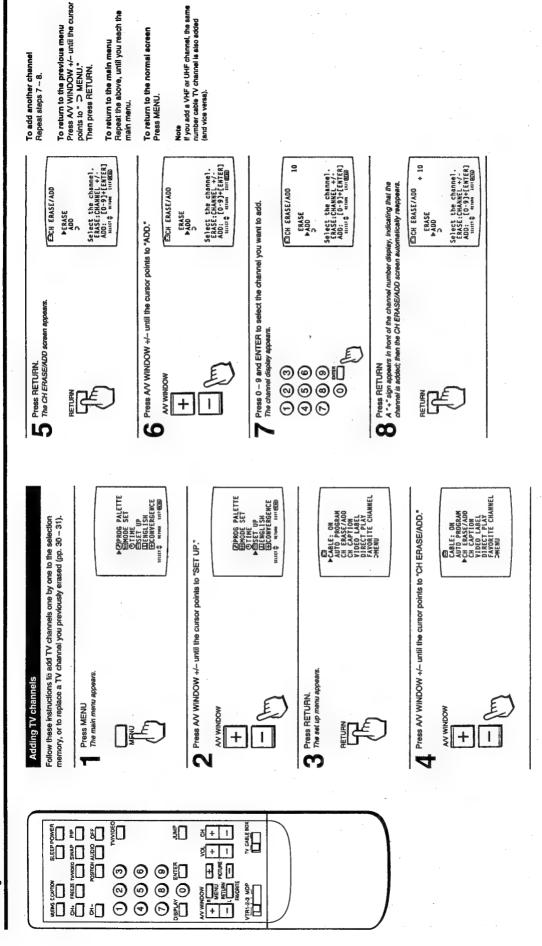


EDPROG PALETTE
EDROG SET
OTIME
PETSET UP
EDECLISH
EDCONVERGENCE
SLIET & NUMBER ENTERN

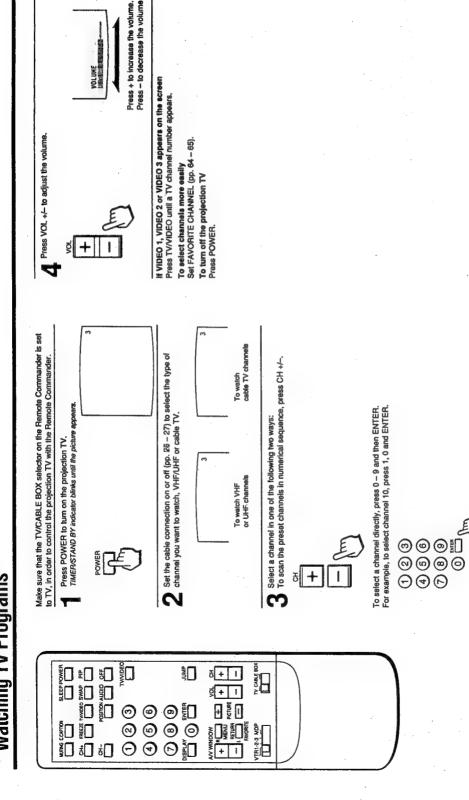
28 Chapter 1: Setting Up



### Presetting TV Channels



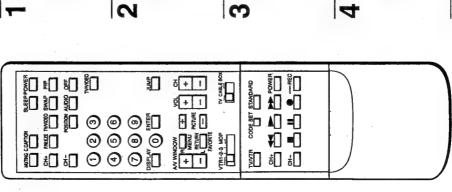
### Chapter 2: Using Basic Features Watching TV Programs

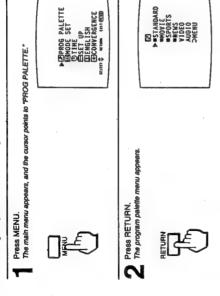


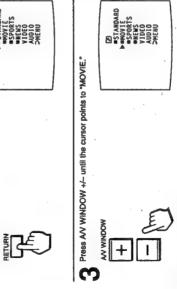
# Selecting a Picture and Sound Mode

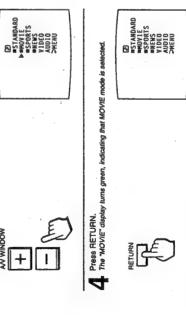
This projection TV features four modes (STANDARD, MOVIE, SPORTS, NEWS) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

Example: Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater











(with video control cover open)

# Selecting standard mode (without using the menus)

To return to the previous menu Press AV WINDOW +/- until the cursor points to " > MENU."

Then press RETURN

To return to the main menu Repeat the above, until you reach the

main menu.

To return to the normal acreen, Press MENU.

Follow these instructions to select standard mode without using the on-screen menus.	ARD.		
Follow these in	Press STANDARD.	STANDARD	

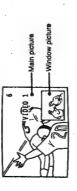
You receive standard picture and sound quality. Any video or audio adjustments you made ("Adjusting the Projection TV," pp. 44 – 52) are cancelled and the original factory settings are restored. When you select STANDARD mode

When you select MOVIE mode
You receive a finely detailed picture, and a theathcal audio effect.
To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52. When you select SPORTS mode
You receive a vivid, bright picture, and sound with a sports stadium effect.
To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

When you select NEWS mode Picture noise is reduced, and you receive clear voice reproduction. To further adjust picture and sound qualities, follow the instructions on pp. 44 – 52.

# Chapter 3: Using Advanced Features Watching Two Pictures at Once (PIP)

"Connecting Other Equipment," pp. 15-19.) Other models are equipped with two-tuner PIP, allowing you KP-41EXR96 is equipped with one-tuner PIP. To watch two TV channels simultaneously, you must first connect a VCR You can watch both the main picture and a window picture simultaneously, using the Picture-in-Picture (PIP) function. to the projection TV, which will enable you to watch a second TV channel through the VCR tuner. (See to watch two TV channels at once.



When watching the main picture and a window picture, Picture-in-Picture special features

- Swap the main and window pictures (SWAP).
  Change the position of the window picture (POSTION).
  Display a still picture (FREEZE).
  Choose the sound from the main or window picture

Input source mode or TV channel

for the window picture

### Input source mode or TV channe for the main picture Name Courses SLEEP Provings Co. REEZ TWANSS SIME OF THE O Press PIP to display a window picture Displaying a window picture 000 Remote Commander

A window picture appears in the last mode you watched. Each time you press PIP, a 1/9 or 1/16 size window picture appears

fo turn PIP function off

The window picture disappears Press OFF.

The window picture sound is also output from the AUDIO (VAR) OUT jacks. The AUDIO OUT and MONITOR OUT jacks output

the main picture sound only.

The video label and channel caption will not appear with the window picture even if you have set them.

To receive the window picture sound Press AUDIO.

The \tag{} display appears for a few seconds, indicating that the To restore the main picture sound window picture sound is being received. Press AUDIO again. If you select a blocked channel in the window picture, the display "BLOCKED" appears with the window picture. (See "Setting CHANNEL BLOCK," pp. 62 – 63.)

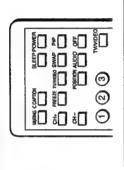
# Changing the window picture input mode

**Jemote Comm** 

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below.

(Front inner panel)

Displaying CATV input as a window plcture



∠=: Signal flow

(Rear of projection TV)

1-0

Press PIP to display a window picture.



Press TV/NIDEO in the Picture-in-Picture control area to select the input mode.

Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence. S

VMC-810S/820S

(not supplied)

CATY Sebie





Follow steps 1 – 2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR. connection on by following the steps on pp. 26-27; then continue with the steps below.

To change TV channels in the window picture Press CH +/- in the PIP control area.

After making the above connections, turn the cable

Decoder

VCR

Put your VCR on an inactive channel (channel 3 or 4).

Change pay cable TV channels with the decoder box.

To control your cable converter box with the supplied Remote Commander See p. 70.

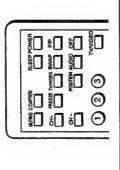
40 | Chapter III Using Advanced Features

# Watching Two Pictures at Once (PIP)

# Changing the position of the window picture

Follow these instructions to change the position of the window picture on the screen.

Remote Commander



Press PIP to display a window picture



Press POSITION.

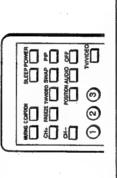
Each time you press POSITION, the window picture moves as illustrated.



### Displaying a still picture

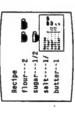
Use the FREEZE function to display a still picture. This function is useful when you want to write down a recipe from a cooking program, a displayed address or phone number and so on.

Remote Commander



Press PIP to display a window picture.

VIDEO 1



227 Press FREEZE.

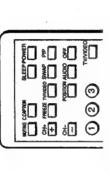
The window picture image remains stiff on the screen.

To restore the normal picture Press FREEZE again.

### Swapping the main and window pictures

Follow these instructions to swap the input signals of the main and window pictures.

Remote Commander



Press PIP to display a window picture.





Press SWAP.
Each time you press SWAP, the images from the main and window pidures switch places.  Output lacks

Speaker

MONITOR OUT

**S VIDEO MONITOR OUT** 

(4-pin mini DIN)

Y:1 Vp-p, 75-ohms

unbalanced, sync negative

Video (phono jacks): 1Vp-p, 75-ohms unbalanced, sync negative

Audio (phono jacks): 500mVrms

(100% modulation) Impedance: 10 kilo-ohms

**AUDIO (VAR) OUT** (phono jacks)

More than 900mVrms (100% modulation) at the maximum volume setting (variable)

Impedance: 5kilo-ohms

**AUDIO OUT** 

(phono jacks)

900mVrms (100% modulation)

Impedance: 5kilo-ohms

Two-way coaxial speaker system

Woofer 130 mm (5inches) diameter

Tweeter 35 mm (1.4inches) diameter

Speaker output 12W×2

Dimensions (w/h/d)

Optional accessories

CENTER SPEAKER input 16\( \Omega\) NORM. 30W MAX 50W

Power requirements 120 V AC, 60 Hz

Power consumption 310W (max)

7W (standby mode) 930×1,185×505 mm

 $(365/8 \times 463/4 \times 20 \text{ inches})$ 72 kg (138 lb 12 oz)

Weight Supplied accessories Remote Commander RM-Y112A (1)

with 2 size AA (R6)

**EVEREADY** batteries

U/V mixer EAC-66 Connecting cable

**RK-74A** VMC-8105/820S YC-15V/30V

VCR Tray SU-PJT1

Design and specifications are subject to change without notice.

### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### **WARNING!!**

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### (ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL. OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### **ATTENTION!!**

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.

LE CHASSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

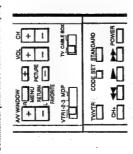
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE A SUR LES SCHEMAS DE PRINCIPE, LES **VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE** IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY, LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

You can adjust the picture and sound for each input mode (TV, VIDEO 1, VIDEO 2, VIDEO 3) by pressing TVAVIDEO on the projection TV or on the Remote Commander to select the input mode, before making the adjustments. These adjustments are retained in memory even when you turn off the projection TV, but are cancelled after you change the adjustments, or select a picture and sound mode (pp. 38 - 39).

### Adjusting the picture

Follow these instructions to adjust PICTURE, HUE, COLOR, BRIGHT (brightness) and SHARP (sharpness).

Remote Commander (with video control cover open)



Press MENU. The main menu appears, and the cursor points to "PROG PALETTE".

	P PROG PALETTE MANODE SET OTTME	ESET UP CDENGLISH ECONYERGENCE	Mittet # seinen tanifffen
-			

Press RETURN.
The program palette menu appears.

	_		_			_		
8	<b>▶</b> ■STANDARD	3IAOM=	SPORTS	SMEMS	VIDEO	AUDIO	UNINC	

Press AVV WINDOW +/- until the cursor points to "VIDEO."

Press RETURN.
The VIDEO screen appears.

100	1118	
EO TURE BATTER	T PART TONE: U	EThen (117)
NY IDEO	SERVICE SERVIC	3

Press AV WINDOW 4/- until the cursor points to the item you want to adjust.

Press RETURN.
The adjustment screen appears.

(2) VIDEO 꾶

Press A/V WINDOW +/- to make the adjustment.

Picture quality	Press AV WINDOW -	Press AV WINDOW +
PICTURE	For decreased picture contrast with soft color	For increased picture with vivid color
HUE	Skin tones become purplish	Skin tones become greenish
COLOR	For less color intensity	For more color intensity
BRIGHT	For less brightness	For more brightness
SHARP	For less sharpness	For more sharpness

Press RETURN.
The adjustment is complete, and the VIDEO screen automatically reappears.

AVIDEO PPICTURE PALMENS	HOC COLOR META-1-1-1	SHARP RESENTANCE TRINITONE: LOW	SALECT MITTER CELLERIE
-			- 3

To adjust other items Repeat steps 5 - 8. To restore the factory settings for all the items Select "STANDARD" on the program palette menu, and

press RETURN;

or, press STANDARD on the Remote Commander.
All the ferres, including TRINITONE (p. 46) and NR (p. 47) return to their original factory settings.

You can also adjust picture contrast with the PICTURE +/buttons on the Remote Commander. To adjust picture contrast



Press + to increase picture contrast with vivid color. Press – to decrease picture contrast with soft color. The picture adjustment screen appears.

To return to the previous menu Press AV WINDOW +/- until the cursor points to D MENU.

Then press RETURN.

Repeat the above, until you reach the main menu. To return to the main menu

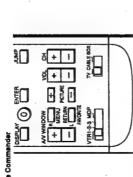
To return to the normal screen Press MENU.

44 Chapter 3: Using Advanced Features

### Setting the TRINITONE mode

Color picture tubes are usually manufactured with a fixed color temperature (int) that determines the 'varmin' (red tint) are 'cociness' (blue tint) of the picture. Use the Sory Trinitorie feature to adjust the picture color to your preference.

Remote Comn



Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

Press AV WINDOW +/- to select "HIGH" or "LOW."

Press RETURN.
The mode display tums red.

9

Select "HIGH" to make the picture cool (bluish). Select "LOW" to make the picture warm (reddish).



Press RETURN.
The setting is complete.

 $\infty$ 

Press RETURN.
The program palette menu appears.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to \_ \_ MENU."



Repeat the above, until you reach the main menu.

To return to the main menu

Then press RETURN.

To return to the normal screen

Press MENU.

Press AV WINDOW +/- until the cursor points to "VIDEO."

Press RETURN.
The VIDEO screen appears.



States wies interes

Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



Press RETURN.
The program palette menu appears.



Press AV WINDOW +/- until the cursor points to "VIDEO."

# Setting NR (picture noise reduction) ON or OFF

Fress AV WINDOW +/- until the cursor points to "NR."

Follow these instructions to reduce picture noise.

TV CABLE BOX VTRI 23 MOP

Press RETURN.
The mode display turns red.

Press AV WINDOW +/- to select "ON" or "OFF." Select "ON" to reduce picture noise. Select "OFF" to restore the normal picture.

Press RETURN.
The setting is complete.

To return to the previous menu Press AVV WINDOW +/- until the cursor points to " D MENU." Then press RETURN.

Repeat the above, until you reach the main menu. To return to the main menu

To return to the normal screen Press MENU.

Press RETURN.
The VIDEO screen appears.

### Setting S-VIDEO ON or OFF

Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the projection TV. For instructions on connecting video equipment, see pp. 15 – 18.

if the projection TV is in TV, VIDEO 2 or VIDEO 3 mode, the YOUEO' display is shaded and Cannot be selected. Press TVV/IDEO on the projection TV or on the Remote Commander to change to VIDEO 1 myde.

AN WINDOW WEND PARTY OF THE PROPERTY OF THE PR TV CABLE BOX VTH1-2-3 MOP Remote Comi

Press MENU. The main menu appears.

PEPROG PALETTE
MINODE SET
OTHE
STATE UP
TENGLISH
ECONVERGENCE

Press AV WINDOW +/- until the cursor points to "MODE SET."

3

Press RETURN. The mode set menu appears, with the cursor pointing to "5-VIDEO."

: MAIN : MAIN : MAIN MS-VIDEO : SPEAKER :: SPEAKER ::

### Adjusting the sound

Press RETURN. The mode display tums red.

Follow these instructions to adjust the TREBLE, BASS and BALANCE.

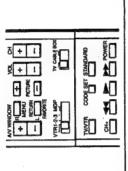
nder (with video control cover open) Remote Con

Press A/V WINDOW +/- to select "ON" or "OFF."

5

Press RETURN.

The setting is complete



Press MENU.
The main menu appears, and the cursor points to PROG PALETTE."

To return to the previous menu
Press AV WINDOW 4/- until the cursor points to
... > MENU."

Repeat the above, until you reach the main menu.

To return to the main menu

Then press RETURN.

To return to the normal screen Press MENU.



Press RETURN.
The program palette menu appears.

PESTANDARD PESTANDARD PESTANDARD PESTANDARD PORTS PUDEO AUDIO AUDIO AMENU

Press A/V WINDOW +/- until the cursor points to "AUDIO."

Press RETURN.
The AUDIO screen appeal

PTREBLE MINIMAGE BASS BLANKE BALKE PERSON BALKE PERSON BALKE PERSON BASS STERED BASS OF F BLICT C MINNE IIII (EU)

Then press RETURN.

Press AV WINDOW +/- until the cursor points to the item you want to adjust.

Press RETURN.
The adjustment screen appears

CDAU010

Press AV WINDOW +/- to make the adjustment.

Press AV WINDOW - Press AV WINDOW +	LE To decrease the trable To increase the trable response	To decrease the bass response response	NCE To emphasize the left To emphasize the right
Sound	TREBLE	BASS	BALANCE

Press RETURN.
The adjustment is complete, and the AUDIO screen automatically reappears.  $\infty$ 

TREBLE BIRBING MANAGEMENT TREBLE BASS AUTO BASS STERED

To adjust other items Repeat steps 5 - 9.

Stiter & urben terrette

Select "STANDARD" on the program palette menu, and press RETURN; or, press STANDARD on the Remote To restore the factory settings for all the Items

Commander. All the items, including SRS mode (p. 50) return to their original factory settings.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to
2 DMENU."

Repeat the above, until you reach the main menu. To return to the main menu

To return to the normal screen Press MENU.

48 Chapter It Using Advanced Features

# Selecting an SRS (Sound Retrieval System) mode

For lifelike sound reproduction, follow the instructions below to select the SRS mode you prefer.

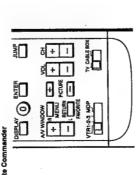
In SRS AUTO mode, SRS functions in both monaural and stereo modes.

Monaural sound programs will have a 'simulated stereo'

In SRS STEREO mode, SRS functions only when a stereo the STEREO lamp on the TV lights up whenever a stereo program is received.

Select SRS OFF mode to return to normal sound mode.

Remote Commander



Press MENU. The main menu appears, and the cursor points to PROG PALETTE.

PEPROG PALETTE
WHODE SET
OTHER
STEEL UP
UENGLISH
ETCHORERUE
HIGH STEEL

Press RETURN,
The program palette menu appears.

PSTANDARD DOWN TENENTS WIDEO AND TO A DECO A

Press AV WINDOW +/- until the cursor points to "AUDIO."

Press RETURN.
The AUDIO screen appears.

PARBLE BUSHISHMANN BASS BUSHISHMANN BALANCE BUSHISHMANN BASS AUTO WSRS STEREO HETT & RETORN TAITED

Press AV WINDOW +/- until the cursor points to the SRS mode you want.

Press RETURN.

The mode is selected.

To change the SRS mode Repeat steps 5 - 6. To return to the previous menu
Press A/V WINDOW +/- until the cursor points to
" ⊃ MENU."

hen press RETURN.

Repeat the above, until you reach the main menu. To return to the main menu

To return to the normal screen Press MENU.

# Selecting an MTS (Multichannel TV Sound) mode

The STEREO lamp on the projection TV lights up whenever a Follow these instructions to select an MTS mode. Select MAIN mode to listen to stereo sound.

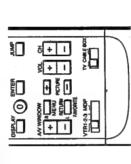
Fress RETURN.
The mode display turns red.

f the projection TV is in video mode, the "MTS" display is shaded Press TV/VIDEO on the projection TV or on the Remote Commender to change to TV mode. and cannot be selected.

Press AV WINDOW +/- to select the mode you want, Each time you press AV WINDOW +/-, "MAIN," "SAP" and "MONO" appear in sequence.

9

Remote Com





Press AV WINDOW +/- until the cursor points to "MODE SET."

Press AV WINDOW +/- until the cursor points to "MTS."

Select MONO mode to eliminate excessive noise during stereo broadcasts, caused by a weak incoming signal. Select SAP mode to listen to Second Audio Programs.

Press RETURN.
The mode is selected.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to

Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

Press MENU.

The main menu appears.

Press RETURN.
The mode set menu appears

PS-VIDEO : OFF MTS : MAIN SPEAKER : MAIN

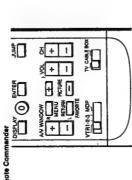
# Setting SPEAKER — MAIN or CENTER

Press RÉTURN. The mode display turns red.

5

Follow these instructions to set SPEAKER to "CENTER" when you connect an audio system (p.19), and to "MAIN" when you want to listen to the sound from the projection TV

Remote Com



Press RETURN.
The setting is complete.

Press MENU. The main menu appears.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to
" \( \times \) MENU."

Then press RETURN.

Repeat the above, until you reach the main menu. To return to the normal screen Press MENU. To return to the main menu MENDE SET METTE MENDE SET METTE METT

Press A/V WINDOW +/- until the cursor points to "MODE SET."

Press RETURN. The mode set menu appears n

MAIN ES-VIDEO MTS SPEAKER SPEAKER

Press AV WINDOW +/- until the cursor points to "SPEAKER." 4

# **Customizing the Screen Display**

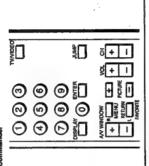
## Setting channel captions — CH CAPTION

Follow these instructions to caption each channel number display with a name, for instance, the television station call letters. (You can set up to four letters or numbers).

Example: Caption channel 15 as "NBC."

Remote Comi

Press AV WINDOW +/- to select "MAIN" or CENTER."



Press MENU.
The main menu appears.



Press AVV WINDOW +/- until the cursor points to "SET UP."

Press RETURN.
The set up menu appears.

CABLE: ON ALTO PROGRAM CH ERASE/ADD CH CAPTION VIDED LABEL FAVORITE CHANNEL CHANNEL

Press AV WINDOW +/- until the cursor points to "CH CAPTION."

Press RETURN.
The CH CAPTION screen appears.

**≅**\_5 Use [0-9]+[ENTER] to select the channel. Hirth Himm things ECH CAPTION

Press CH +/-, or press 1, 5 and ENTER to set channel \*15."

'n

ECH CAPTION

Use [0-9]+[ENTER] to select the channel. state# mise#

Press RETURN. The limit caption space tums red.

Press AV WINDOW +/- to select "N."
Each time you press AV WINDOW +/-, '0" - "9, ".'4" - "2,"
'8, ","." and "\_\_ (blank space) appear in sequence.  $\infty$ 

Select the 1st letter. 111 Pi ryht ESCH CAPTION d corns

0

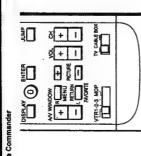
Press RETURN.
The second caption space turns red.

Chapter 3: Using Advanced Features | 53

### **Customizing the Screen Display**

### Setting channel captions - CH CAPTION (Cont'd. from prev. page)

Remote Commander



Press AV WINDOW +/- to select a blank space.

Select the 4th letter. 111 801198s ECH CAPTION Serect 💠

Press RETURN.
The setting is complete.
When you select or display the channel number, the

channel caption also appears

Press A/V WINDOW +/- to select "B."

ECH CAPTION

To caption more channels Repeat steps 6 – 15.

To erase unnecessary captions
Display the CH CAPTION accent, select the channel with
the caption you want to erase, and select blank spaces for
the caption; then press RETURN. The caption for that channel is erased

Select the 2nd letter.

E111

811249

\$ 131188

Press RETURN.
The third caption space turns red.

Ŧ

Press A/V WINDOW +/- until the cursor points to "  $\supset$  MENU." To return to the previous menu

Then press RETURN.

Repeat the above, until you reach the main menu. To return to the normal screen

Press AV WINDOW +/- to select "C."

ECH CAPTION

To return to the main menu

Press MENU.

Press RETURN.

The set up menu appears

You can set up to 32 channel captions. If the memory is full, "The memory is full, sorry" appears on the screen. Erase any unnecessary captions, and begin again

Select the 3nd letter.

CELL SEED

46.7038

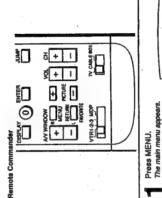
SILICT \$

Press RETURN.
The fourth caption space turns red.

### Setting VIDEO LABEL

Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

Example: Label VIDEO 1 IN as "VHS."



P 2 PROG PALETTE
EMPOSE SET
OTHER
EMPOSE SET
EMPOSE SET
MARKET BP
EMPOSE SET

Press A/V WINDOW +/- until the cursor points to "SET UP."

CABLE: ON CABLE: CABLE:

Press AV WINDOW 4/- until the cursor points to "VIDEO LABEL."

Press RETURN.
The VIDEO LABEL screen appears.

ENIDEO LABEL

MIET GETTE TETT ETTE PVIDEO1: VIDEO 2 VIDEO2: VIDEO 3 VIDEO3: VIDEO 3

Press A/V WINDOW +/- until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

Press AV WINDOW +/- to select "VHS."

Press RETURN.
The label display turns red.

VIDEOZ: VHS VIDEOZ: VIDEO 2 VIDEOZ: VIDEO 3 Strict & serves \$111600 ENIDEO LABEL

VIDEO 1 - BETA - Bmm - VHS- LD - B-VIDEO Each time you press A/V WINDOW +/-, the label changes:

VIDEO 3-▶ BETA → 8mm → VHS-▶ LD VIDEO 2→BETA → 8mm → VHS → LD VIDEO 2 VIDEO 3

Press RETURN. The setting is complete. When you select or display the video mode, the video label 9

To label other input modes

Repeat steps 6 - 9. To change a label Same as above.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to - ⊃ MENU."

Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

### Setting DAYLIGHT SAVING

season, before setting the current time. At the next daylight seavings drain, you will be able to automatorially adjust all the time-related settings (CURRENT TIME, ON/OFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the SAVING setting.

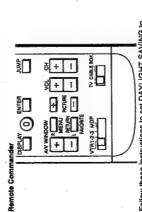
### When setting DAYLIGHT SAVING:

After the first Sunday in April (apring daylight sevings) Set to "YES" before setting the curent time.
Then, on the last Sunday in October (fall daylight savings), set to "NO." All the time-related settings automatically move one hour back.

Press AV WINDOW +/- until the cursor points to "DAYLIGHT SAVING."

- After the last Sunday in October (fall daylight savings) Set to "NO" before setting the current time.
- All the time-related settings automatically move one hour ahead. Then, on the first Sunday in April (spring daylight savings), set to "YES."

Press RETURN.
The mode display turns red.



Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."

P 2) PROG PALETTE DIMONE SET OITHE CONTROL SET UP CONVERENCE MILCT ON THE DIMONE THE DIM Press MENU. The main menu appears.

Repeat the above, until you reach the main menu.

To return to the main menu

Then press RETURN. > MENU.

To return to the normal screen. Press MENU.

Press A/V WINDOW +/- until the cursor points to

To return to the previous menu

Press RETURN.
The setting is complete.

Press AV WINDOW +/- until the cursor points In "TIME."

# Setting the clock — CURRENT TIME SET

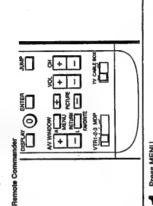
Press RETURN.
The time menu appears.

3

Follow these instructions to set the current time. The correct current time must be set in order to use the other ime-related functions (DAYLIGHT SAVING, ON/OFF TIMER, CHANNEL BLOCK).

Example: Set the time to 3:15 PM, Monday.

DECURENT TIME SET ON/OFF TIMESET CHANNEL BLOCK CHANNEL BLO



Press MENU.
The main menu appears. \_

Press AV WINDOW +/- to select "YES" or "NO."

POPROG PALETTE MINOR SET OF THE MINOR SE

Press AV WINDOW +/- until the cursor points to "TIME."

Press RETURN.
The time menu appears, and the cursor points to "CURRENT TIME SET." 3

G CURRENT TIME SET ON/OFF TIMER CHANNEL BLOCK DAYLIGHT SAVING:NO CHENGENO C

Press RETURN again.
The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING.

Set DAYLIGHT SAVING first if needed. OCURRENT TINE SET DAYLIGHT SAVING

if you do not need to set DAYLIGHT SAVING, press RETURN and continue from step 5.

### To set daylight saving

- Press AV WINDOW +/- until the cursor points to "DAYLIGHT SAVING." Œ
- The time menu appears, and the cursor points to DAYLIGHT SAVING." Press RETURN. ٥
- Press RETURN.
- Press AV WINDOW +/- to select "YES" or "NO." T
- The setting is complete. Press RETURN.

To set the time, press AV WINDOW +/- until the cursor points to "CURRENT TIME SET"; press RETURN, then continue from step 5.

Press RETURN, The CURRENT TIME SET screen appears, and the "SUN" display appears (red). S

Press AVV WINDOW +/-- to select "MON."

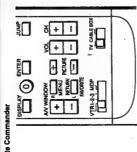
Each time you press AV WINDOW +/-, the day changes consecutively.

Select today's day. OCURRENT TIME SET HUN 12:00 AM START

(Continued

## Setting the clock — CURRENT TIME SET (Contd from prev. page)

Remote Commander



Check the actual time, and press RETURN to start the clock.

The setting is complete.

Press RETURN.
The hour and am/pm displays turn red.

Press AV WINDOW +/- to set "3:00PM." Each time you press AV WINDOW +/-, the hour changes in sequence beginning with "12:00AM."  $\infty$ 

Press AV WINDOW +/- until the cursor points to \_\_ > MENU."

To return to the previous menu

To display the current time Press DiSPLAY.

Repeat the above, until you reach the main menu.

To return to the main menu

Then press RETURN.

To return to the normal screen. Press MENU.



Press RETURN.
The minute display turns red.

Press AVV WINDOW +/- to select "15" (minutes).

Each time you press AVV WINDOW +/-, the minutes change in sequence.

OCURRENT TIME SET HON 3:15 PM START START SET THE THREE SET THE THREE SET THE SET THREE SET THREE STATES
--

### Press RETURN. The cursor points to "START."

to three programs.) Example:

3	V - 1 - V	
	AVV WINDOW    P   NENU   ETTINE   FMOOFITE   TOTAL STANDOW	
Remote Commander		
% E		

To reset the time Display the CURBENT TIME SET screen and repeat steps 5-12.

To set program 1, press RETURN.
(To set program 2 or 3, press AV WINDOW +/- until
the cursor points to that program; then press
RETURN.)

9

The day input space turns red.

Press MENU.
The main menu appears.

Press AV WINDOW 4/- to select "EVERY MON-FRIT; then press RETURN.
Each time you press AV WINDOW 4/-, the days of the week claring as shown in Fig. 1 (p. 61).

PEPROG PALETTE
MINODE SET
OUTINE
DSET UP
LIENGLISH
ECONVERGENCE
ACONVERGENCE

Press AV WINDOW +/- until the cursor points to "TIME."

CURRENT TIME SET ON OFF TIMER CHANNEL BLOCK DATLIGHT SAVING: NO OMENO Press RETURN.
The time menu appears.

Press A/V WINDOW +/- until the cursor points to "ON/OFF TIMER."

### Setting the ON/OFF TIMER

Follow these instructions to make the program of your choice appear on the screen at a specified time.

Set the timer to turn on the projection TV every Monday through Friday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up

OOK/OFF TIMER
2. ....AN .H CH....
3. ....AN .H CH....

Select a program,

Press RETURN.
The ONOFF TIMER screen appears, and the cursor points to "1."

2...:...AH .H CH ... 3. .....AH .H CH ...

Set the time.

OGN/OFF TIMER
1.EVERY HON-FRI

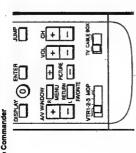
Press AV WINDOW +/- to select "1:00AM"; then press RETURN.
Each time you press AV WINDOW +/-, the hour changes in sequence.

OON/OFF THER 1. EVERY MON-FRI 2. 1:00AM .H CH ... 3.....АН .Н СН Set the time. (Continued)

58 Chapter 3: Using Advanced Features

# Setting the ON-OFF TIMER (Contd from prev. page)

Remote Commander



Press A/V WINDOW +/- to select "30" (minutes); then press RETURN. Each time you press A/V WINDOW +/-, the minutes change in sequence.

1.EVERY MON-FRI 1.EVERY MON-FRI 2.130AM - H. CH... 3...-AM - H. CH... Set the duration.

Press AVV WINDOW +/- to select \*3\* (hour duration); then press AFETURN.

Each time you press AV WINDOW +/-, the duration changes from \*1\*- \*6\* in sequence.

3.....AN .H CH... GON/OFF TIMER
1.EVERY MON-FRI
1:30AM IN CH... Set the channel.

Press AV WINDOW +/- to select "8" (channel); then press RETURN.

The TIMERSTAND BY kmp lights, indicating that the setting is complete. Each time you press AV WINDOW ++\_, the channel number changes from 1 - 125 in sequence.

OON/OFF TIMER

1. EVERY HON-FRI

P. 1. 30 AM 3H CH 8

3 ....AM LH CH ... Select a program.

The display "TIMER WILL BE OFF" appears on the screen one minute before the timer duration ends.

To set program 2 or 3. Press RETURN and repeat steps 6 -- 11.

Display the ON/OFF TIMER screen, select the setting you want to erase, and select a blank space for the day. The ON/OFF TIMER setting is erased. To erase an ON/OFF TIMER setting

To enter a new ON/OFF TIMER setting Display the ON/OFF TIMER screen and repeat steps 6 – 11.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to ⇒ MENU.\*

Then press RETURN.

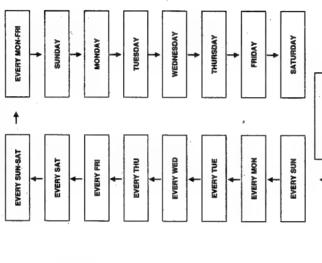
To return to the main menu

Repeat the above, until you reach the main menu. To return to the normal screen. Press MENU.

7

If you unplug the projection TV or a power failure occurs, both the clock and timer settings will be erased. Reset the current time; then set the timer.

Selecting the day(s) of the week
When you press A/V WINDOW +, the days of the week
appear in the following order.



60 Chapter 3: Using Advanced Features

### Setting CHANNEL BLOCK

Follow these instructions to prevent a channel from appearing on the screen during the time that you specify. You can use this function to prevent children from watching unsuitable programs.

Example: Set CHANNEL BLOCK every Saturday at 4:30 PM for 1 hour, on Channel 12.

AV WINNOOM

THE RETURN POTUNE

THE PROPERTY OF TV CABLE BOX VTR1-2-3 MDP Remote Commande

if you have not set the current time, the "CHANNEL BLOCK" display is shaded and cannot be selected.

Press MENU. The main menu appears.

P. PROG PALETTE MINOGE SET OF THE CASET UP CASET UP CASE CE CECCONVERGENCE MINOGENE MINOGENE

Press A/V WINDOW +/- until the cursor points to "TIME.", S

Press RETURN.
The time menu appears.

CONTROL TIME SET ON/OFF TINER CHANKEL BLOCK CHANKEL BLOCK CHANKEL BLOCK CHANKEND CHANKEND

Press AV WINDOW +/- until the cursor points to "CHANNEL BLOCK."

Press RETURN.
The CHANNEL BLOCK screen appears, and the cursor points to the day input space. S

THE HE WATER OCHANNEL BLOCK 100,100 Secret \$

....AH .H CH.... OCHANNEL BLOCK Press RETURN.

The day input space turns red.

Set the day.

Press AVV WINDOW +/L to select "EVERY SAT"; then press RETURN.
Each time you press AV WINDOW +/L, the days of the week change as shown in Fig. 1 (p. 61).

EVERY SAT 12:00AH H CH... Set the time. **OCHANNEL BLOCK** 

Each time you press AV WINDOW +/-, the hour changes in Press AV WINDOW +/- to select "4:00PM"; then press RETURN.  $\infty$ 

Set the time. EVERY SAT 4:00PM \_H CH... **OCHANNEL BLOCK** 

To erase a CHANNEL BLOCK setting Display the CHANNEL BLOCK screen and select a blank space for the day.

The CHANNEL BLOCK setting is erased.

Press A/V WINDOW 4/~ to select ":30" (minutes); then press RETURIN.
Each time you press A/V WINDOW 4/~, the minutes change

O

To enter a new CHANNEL BLOCK setting Display the CHANNEL BLOCK screen and repeat steps 4 – 10. (You can only set one CHANNEL BLOCK at a time.)

To return to the previous menu Press A/V WINDOW +/- until the cursor points to Then press RETURN. ⇒ MENU.\*

Set the duration.

EVERY SAT 4:30PH \_H CH\_\_\_

OCHANNEL BLOCK

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.

Press A/V WINDOW +/- to select \*\*1" (hour duration); then press RETURN.

Each time you press A/V WINDOW +/-, the duration charges from \*\*1" - 6" in sequence.

Note if the ONOFF TIMER is set for an overlapping time (pp. 59 – 61), if the ONOFF TIMER is set for an overlapping time setting takes precedence. For example, if CHANNEL BLOCK is set for 2:00 PM and ONOFF TIMER is set for 3:00 PM, ONOFF TIMER will take effect at 3:00 PM.

EVERY SAT 4:30PM IN CH... Set the charmel.

**GCHANNEL BLOCK** 

Press AV WINDOW 4- to select "12" (channel); then press RETURN.
The series is complete.
Each time you press AV WINDOW 4-, the channel number changes from "1" - "125" in sequence.

FEVERY SAT 4:30PN 1H CH 12 SELECT & Bermen Litt MEN **GCHANNEL BLOCK** 

At the specified time, "BLOCKED" appears in red on the screen, and the picture of the specified channel is blocked and the sound is muted.

BLOCKED

### **SAFETY CHECK-OUT**

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it.
   Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

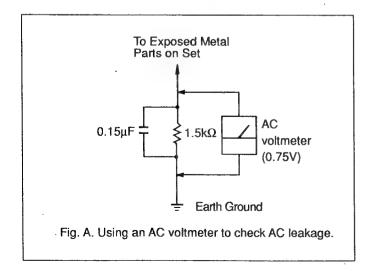
### LEAKAGE

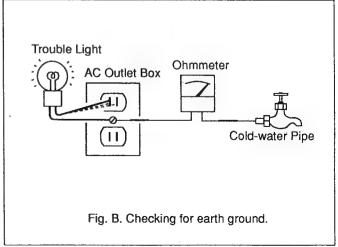
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a coldwater pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

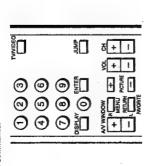




# Setting FAVORITE CHANNEL

By setting FAVORITE CHANNEL, you can select the channels you use most frequently (up to seven channels) simply by pressing RETURN.

Remote Commander



Follow these instructions to set the channels.

Press MENU. The main menu appears.

POPROG PALETTE
MINODO SET
OTTHE
OTTHE
OTHER
SET UP
MINOR SET UP
MINOR

Press AV WINDOW +/- until the cursor points to \*SET UP.\*

Press RETURN.
The set up menu appears.

PCABLE: ON RACASE ON ENASE AND PROGRAM CH ERASE FROM CH CAPTION VIDEO LABEL PLAY FAVORITE CHANNEL SHENU

Press AV WINDOW +/- until the cursor points to "FAVORITE CHANNEL."

Press RETURN.
The FAVORITE CHANNEL screen appears, and the cursor points to the first channel position.

Set the position to input the channel. EPFAVORITE CHANNEL

Press A/V WINDOW 4/- to select the channel position; then press RETURN.

Press 0 – 9 and ENTER to set the channel number.

SFAYORITE CHANNEL HALLET & MENBEN Use[0-9]+ ENTER to select the channel.

Press RETURN.

The setting is complete.

To set other channels Repeat steps 6 - 8. To erase a favorite channel setting Press AV WINDOW 4/- until the cursor points to the relation humber you want to erase; press RETURN, then press 0 and ENTER.

To reset a favorite channel setting Display the FAVORITE CHANNEL screen and repeat steps 6 - 8.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to

Then press RETURN. → MENU."

Repeat the above, until you reach the main menu. To return to the main menu

To return to the normal screen. Press MENU.

### Selecting a favorite channel

After setting the channels, follow these instructions to select the channel you want to watch.

Press RETURN. The FAVORITE CHANNEL display appears.

3505MY 23MTV 866ESPN 5CNN 56HB0

Note if you have set channel captions (pp. 53 - 54), the captions appear with the channel numbers.

Press AV WINDOW +/- to select the channel you want to watch; then press RETURN.

The channel is selected.

If you press RETURN on the Remote Commander before setting FAVORITE CHANNEL, this screen appears.

Please go to SET UP in the menu. Set your favorite channels first.

Follow steps 1 – 8 to set your favorite channels, and then make the selection.

You can operate other video equipment (such as VCRs, video disc players and cable boxes) that have an infrared remote detector with this supplied Remote Commander.

Use the video operating buttons to control the connected equipment.

Press POWER.

To turn on or off

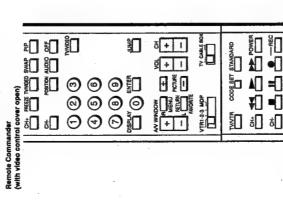
Fig. 3: Operating a VCR (VTR1, 2, 3)

Press CH +/-.

To change channels (when watching TV programs through the VCR's tuner)

### Operating Sony video equipment

Follow these instructions to operate Sony video cassette recorders (Beta, 8 mm and VHS) and video disc players (including multi-disc players).



Set the VTR1-2-3 MDP selector according to the video equipment you want to operate.



### Fig. 2: Video equipment settings

If you want to operate a:	set to:
Beta, ED Beta VCR	VTR 1
8 mm VCR	VTR 2
VHS VCR	VTR3
Video disc player	MDP

	The second of the second	()(
	To turn on or off	Press POWER.
<u>.                                    </u>	To play	Press ▶.
<u> </u>	To stop	Press III.
1.	To pause	Press III.
		To resume normal playback,
		press again.
		Note
		This function is effective only for
		CAV (standard-play disc). With CLV
		(extended-play disc), the projection TV
		goes off (standby mode) if you press 11.
<u> </u>	To search the	Keep pressing ►► or ◄◄
	picture forward	during playback.
	and backward	To resume normal playback,
-		release the button.

Press and REC simultaneously. Press ▶.

To record To play To stop

if the video equipment does not have a certain function, the corresponding button on this Female Commander will not operate.

If you set another manufacturer's code to a VTR1-2-3 MDP selector position (pp. 66 – 69), you must also set the Sony code to operate Sony equipment.

Keep pressing ▶▶ or ◀◀ during playback.
To resume normal playback, release the button.

To search the picture forward and backward

Press TV/VTR.

To change input mode

Press II. To resume normal playback, press again.

Press ... Press ▲▲. Press 🖪.

To rewind the tape

To fast forward

Ceutiform
When you replace the batterles, do so within approximate When you replace the settings you made under the 30 minutes. Otherwise the settings you made under the Pre-Programmed function (sp. 68 – 70) may be erased.

# Operating non-Sony or Sony video equipment

Follow these instructions to set the manufacturer's code, which will enable you to operate non-Sony and Sony video equipment with the pre-programmed Remote Commander.

Example: Operate an RCA video cassette recorder connected to the VIDEO 2 IN jacks.

Remote Commander (with video control cover open)

AV WINDOW VOLUE + HERUN PICTURE - - - -TV CABLE BOX CODE SET STANDARD VTR1-2-3 MDP 

05, 06, 09 05, 06 07, 08

1, 15

13, 14

SCOTT SHARP SHINTOM SYLVANIA

24, 32

RCA SAMSUNG

SANYO

PHILIPS

92, 06

05, 06

PANASONIC

PHILCO

05, 06, 09

59

SYMPHONIC

TEKNIKA TOSHIBA

28, 29 20, 21 25

17

TOTE VISION

Set the VTR1-2-3 MDP selector to VTR2.

To use another manufacturer's equipment besides a Sony VCR, set the selector to a position not being used for your Sony video

While pressing CODE SET, press 0, 7 and ENTER to set RCA's code number. (For manufacturer code numbers, see Figs. 5, 6 and 7 on p. 69.)

Use the video operating buttons to operate the connected equipment. (see Fig. 3 on p. 66 and Fig. 4 on p. 67.)

le numbers	CODE	200
ufacturer cod		
CR man	ACTUBE	

<ol> <li>S. VCR manufacturer code numbers</li> </ol>	umbers	
MANUFACTURER	CODE	
SONY	01, 02, 03	
CANON	05	
EMERSON	22, 30, 33	
FISHER	10, 11, 12, 15	
FUNAI	23	
GENERAL ELECTRIC	05, 08	
GOLDSTAR	25	
HITACHI	07, 08, 36	
JVC	16, 35	
MAGNAVOX	05, 06, 09	
MITSUBISHI	18, 19, 26, 27	
MULTITECH	29	
NEC	16, 23, 31	

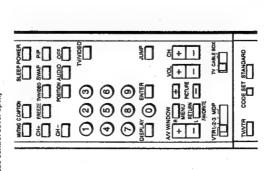
	CODE	10	02	03	04
and the state of t	SONY EQUIPMENT	Beta, ED Beta VCR	8 mm VCR	VHS VCR	Video disc player

video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Remote Commander, in this case, please use the equipment's own remote commander, in this case, please use the equipment's own remote control unit.

### Operating a cable converter box

Follow these instructions to set the manufacturer's code, which will enable you to operate a connected cable converter box with the pre-programmed Remote Example: Operate a connected Zenith cable converter box.

Remote Commander (with video control cover open)



Set the TV/CABLE BOX selector to CABLE BOX.

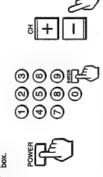


- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
  - If you enter a new code number, the code number you previously entered at that setting is erased
- In some rare cases, your equipment may use a code that is not provided with this Remote Commander and you may not be able to operate your cable conventer box with the supplied Remote Commander. In this case, use the equipment's own remote control unit.

While pressing CODE SET, press 6 and 8 (Zenith's code number — see Fig. 8) and ENTER.



Use the projection TV control buttons (POWER, 0 – 9, ENTER and CH +/-) to operate the cable converter 3



projection TV control buttons to control the projection TV. To return to the normal screen Set the TV/CABLE BOX selector to TV; then use the

For more details on operating the cable box Refer to the operating instructions that come with the

Fig. 8: Cable box manufacturer code numbers

MANUFACTURER	CODE
JERROLD	60, 61, 62, 63, 64, 65
PIONEER	02,70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71,72
ZENITH	89

# Selecting a VCR mode directly — DIRECT PLAY

Press AV WINDOW +/- until the cursor points to "DIRECT PLAY."

Follow these instructions to switch from TV to VCR mode by simply pressing the P (playback) button on the supplied Remote Commander

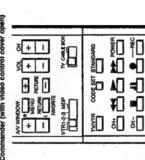
Example: Connect your VCR to the VIDEO 2 IN jacks, and set the VTR1-2-3 MIDP selector to VTR2. When you press by the input mode changes to the VCR connected to the VIDEO 2 IN jacks. ting the steps below, the VTR selector position is retained in the projection TV's memory. Affer com

Remote Commander (with video control cover open)

Program your remote with PRESET COSE before using DIRECT PLAY feature, where when the most of the program of th

EBDIRECT PLAY

Press RETURN.
A message screen appears.



Press RETURN again.

The DIRECT PLAY screen appeara

Note
This screen reminds you to
set the manufacturer's code, if you
have not afready done so (pp. 68 – 69).

Press MENU.
The main menu appears. \_



Press AV WINDOW +/- until the cursor points to the video input mode. (When the video equipment is connected to VIDEO 1 IN, select "VIDEO1.")

VTR1 2 3 HDP

VIDEO1: VTR 1 VIDEO2: OFF EDIRECT PLAY

Press A/V WINDOW +/- until the cursor points to "SET UP."

S

CABLE: ON CABLE: ON CABLE: ON CABLE: ON CABLE CABLE CABLE CABLE VIDEO LABEL PLAY FAVORITE CHANNEL

Press RETURN.
The set up menu appean

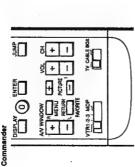
Press RETURN.

The mode display turns red.

70 Chapter 3: Using Advanced Features

Selecting a VCR mode directly -- DIRECT PLAY (Contd. from prav. page)

Remote Commander



Press AVV WINDOW +/- to select the VTR selector mode you have set on the Remote Commander. (When the VTR1-2-3 MDP selector is set to VTR2, select "VTR 2." Each time you press AVV WINDOW +/- "VTR 1;" "VTR 2;" "VTR 3," "MDP" and "OFF" appear in sequence.

CEDIRECT PLAY VIDED1: VTR 2 VIDED2: OFF VIDED3: OFF VIDED 3 MDD	0 1
---	-----

Press RETURN.
The direct play setting is complete.

To set direct play for other connected video equipment Repeat steps 7 - 10.

To return to the previous menu press AV wiNDOW +/- until the cursor points to ...  $\supset$  MENU. Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.

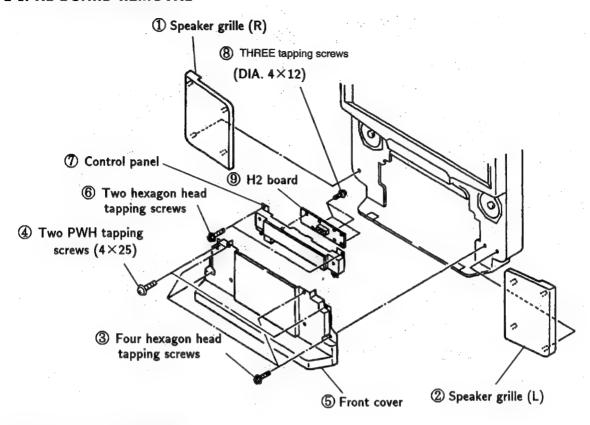
### **Troubleshooting** Appendix

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

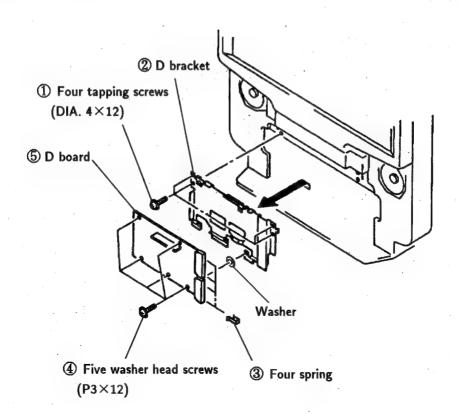
Symptom	Possible causes and remedies
No picture (screen not lit), πα sound	Make sure POWER is switched on.     Check the power cord connection.     Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly.     Make sure that the TV/CABLE BOX selector is set to TV.
Poor or no picture (screen nof lit), good sound	<ul> <li>Adjust the picture using the VIDEO screen (pp. 44 – 47).</li> <li>Check the antenna/cable connections.</li> <li>Adjust the color registration (pp. 24 – 25).</li> </ul>
Good picture, no sound	• Press VOLUME + on the projection TV or VOL + on the Remote Commander. • Press MUTING on the Remote Commander. • Check the MTS setting (p. 51). • Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. • Make sure SPEAKER is set correctly (p. 52).
No color for color programs	• Check the HUE and COLOR settings (pp. 44 – 45).
Snow and noise only	<ul> <li>Check that it is an active or correct channel.</li> <li>Check the cable setting.</li> <li>Check antenna/cable connections.</li> </ul>
Sections or stripes	This is often caused by local interference (for example, cars, neon signs and hairdryers). Adjust the telescopic aerial for minimum interference.
Double images or ghosts	Reflections from nearby mountains or buildings often cause this problem. Connecting a highly directional outdoor antenna or a CATV cable may improve the picture.
Remote control does not operate	Check the battery in the Remote Commander.
No picture and/or sound for the connected equipment	Check that the TV/VIDEO button is set correctly. Check that the connections are properly made. Check that the power of the connected equipment is turned on. Check that the connected equipment is set correctly.
Try another char	Try another channel. It could be station trouble.

## SECTION 2 DISASSEMBLY

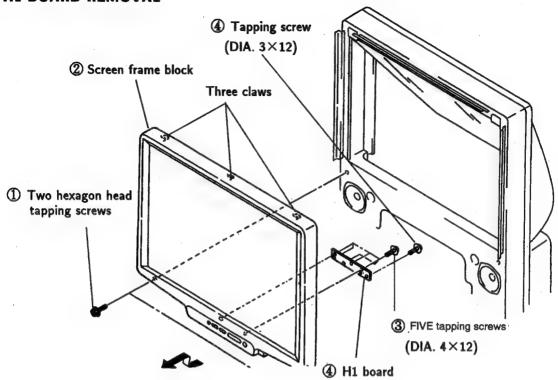
### 2-1. H2 BOARD REMOVAL



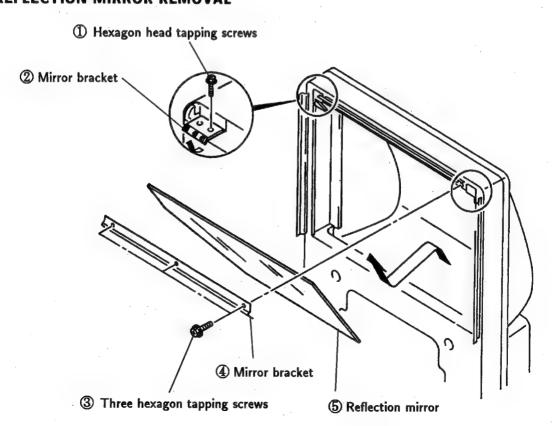
### 2-2. D BOARD REMOVAL



## 2-3. H1 BOARD REMOVAL

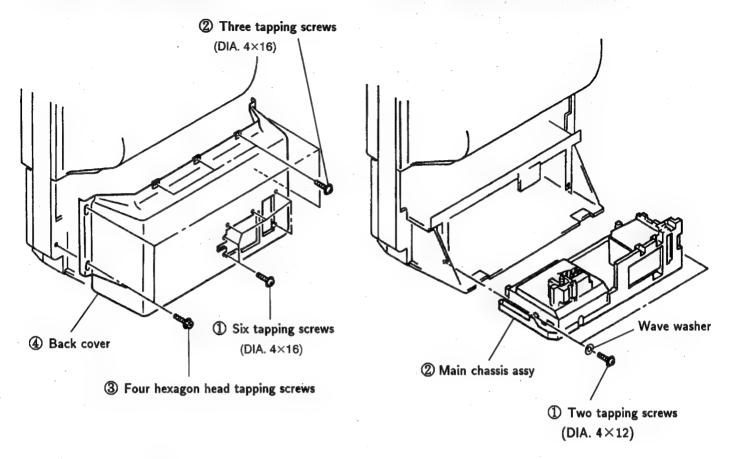


## 2-4. REFLECTION MIRROR REMOVAL

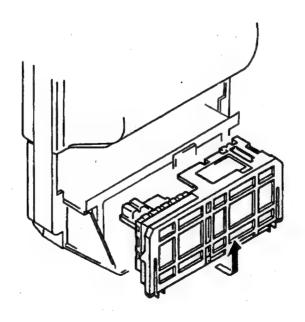


## 2-5. BACK COVER REMOVAL

## 2-6. MAIN CHASSIS ASSY REMOVAL



## 2-7. SERVICE POSITION



#### NOTES INSERTED IN SERVICE POSITION

Service Position Procedure

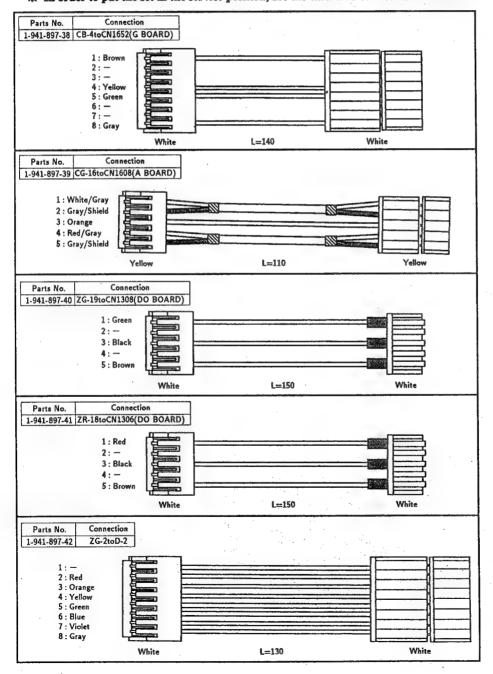
- 1) Remove the path locks where the harness comes into. (MAIN bracket, G shield)
- 2) Remove the following connectors befor removing the main bracket.
- ※ HV grounding lead, G shield grounding lead, V-2 connector(V board).
- 3) Remove the main bracket. (Take care as the connector leads linking to the C and Z boards considerably short).
- 4)Before power ON, be sure to connect the connectors removed.
- **%** HV grounding lead, G shild grounding lead.

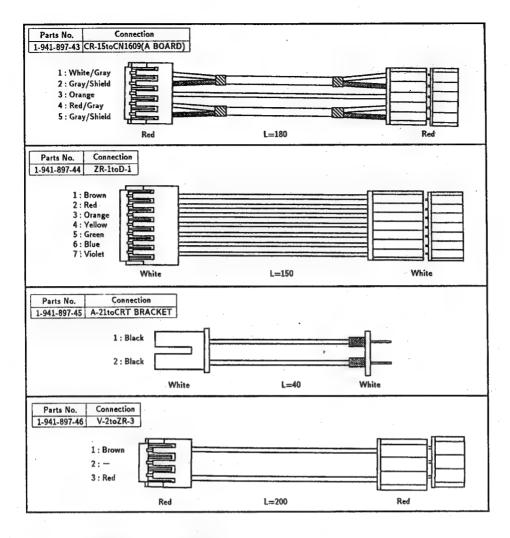
In case that grounding lead(Black) of HV Block is not connected with chassis grounding, it causes arcing of CRT and it is daigerous.

Be sure to connect grounding lead of HV Block with chassis grounding.

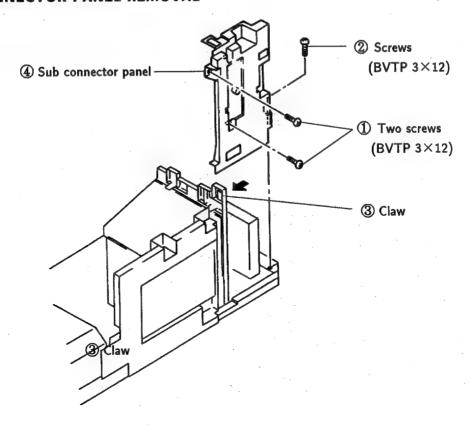
#### CONNECTOR CABLES

\* In order to put the set in the service position, use the extension connector cables below.





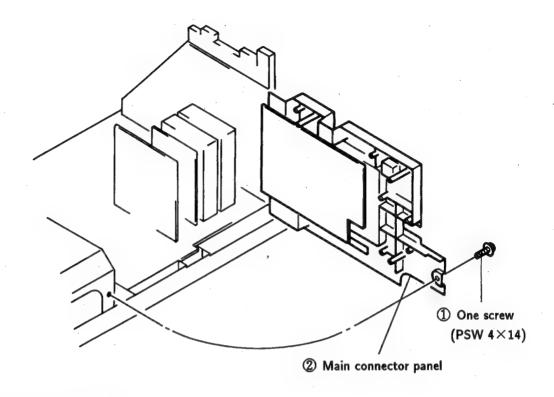
## 2-8. SUB CONNECTOR PANEL REMOVAL



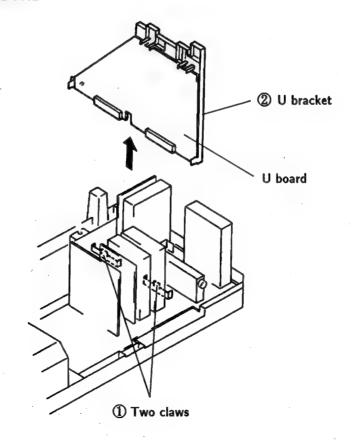
### **TABLE OF CONTENTS**

Section		<u>Title</u> <u>Page</u>		Section		Title	Page
1.		ERAL		4.	SAF	ETY RELATED ADJUSTMENTS	
	Unpa	cking and Viewing Area ·····	5		4-1.	Safety Related Adjustments	53
	Local	ting Cntrols and Connectors ·····	5				
	Using	g the On-Screen Menus ·····	8	5.	CIRC	CUIT ADJUSTMENTS	
		sting Color Registration (CONVERGENCE)			5-1.	Electrical Adjustment by Remote Command	er ····· 57
		ng CABLE ON or OFF ······			5-2.	A Board Adjustments	59
	Prese	tting TV Channels	12			DS Board Adjustments ······	
	Watc	hing TV Programs ·····	15		5-4.	P1 Board Adjustments	62
	Using	g Closed Caption ·····	16				
	Using	g Convenient Features ······	16	6.	DIA	BRAMS	
		ting a Picture and Sound Mode ·····			6-1.	Block Diagram (1) ······	64
	Wate	hing Two Pictures at Once (PIP) ·····	18		6-2.	Block Diagram (2) ·····	67
	Adju	sting the Projection TV	20		6-3.	Block Diagram (3) ·····	71
	Custo	omizing the Screen Display	24		6-4.	Frame Schematic Diagram ·····	
	Using	g Timer-Activated Functions·····	26		6-5.	Circuit Boards Location	
		ng FAVORITE CHANNEL			6-6.	Schematic Diagrams and Printed Wiring Bo	
		g the Pre-Programmed Remote Commander ·······				• A Board·····	
		ble Shooting ······				• U Board·····	87
						•UT Board·····	90
2.	DISA	ASSEMBLY				•D Board·····	92
		H2 Board Removal·····	35			•G Board·····	
	2-2.	D Board Removal	35			•H1 Board ·····	102
	2-3.	H1 Board Removal	36			• H2 Board ·····	
	2-4.	Reflection Mirror Removal·····				•DS Board ······	
•	2-5.	Back Cover Removal	37			•CB Board·····	
	2-6.	Main Chassis Assy Removal ·····				•V Board·····	
	2-7.	Service Position				•CG Board····	
	2-8.	Sub Connector Panel Removal				•ZB Board ······	
	2-9.	Main Connector Panel Removal				•CR Board·····	
		U Bracket Removal ·····	40			•ZG Board······	
		V Board Removal				• ZR Board ······	
		N Braket Removal······				•S Board	
	2-13	G Board Removal	41			•N Board······	
	2-14	Mirror Cover Removal ·····	42			•X2 Board ·····	
	2-15	Chassis Assy Removal	42			• M Board ·····	
		Picture Tube Removal				•El Board ······	
		. High-Voltage Cable Installtion and Removal				• E2 Board ······	
		Connector Cable				• Y2 Board	
	2-10	. Connector Cable	77			•P1 Board······	
3	SET	UP ADJUSTMENTS			6.7	Semiconductors ······	
J.		Focus Lens Adjustments ·····	45		0-7.	Schicolados	137
	3-2.	Deflection Yoke Position Adjustments		7	EXE	LODED VIEWS	
	3-3.	45131			7-1.	Screen Frame and Control Panel ·····	130
		4-Pole Magnet Adjustment ······			7-2.	Cabinet and Back Cover ······	
	3-4. 3-5.	De-Focus Adjustment (Blue)			7-2. 7-3.	Chassis	
		Green Picture Adjustments				Picture Tube	
	3-6. 3-7.	Green and Red Registration Adjustments			/-4:	riciale 1 and	142
	3-7. 3-8.	Green and Blue Registration Adjustments		Ω	FIE	CTRICAL PARTS LIST	1/12
	3-9.	Registration Chek		J.		VIIIVALI AILIV MVI	143
		White Balance Adjustments					

## 2-9. MAIN CONNECTOR PANEL REMOVAL

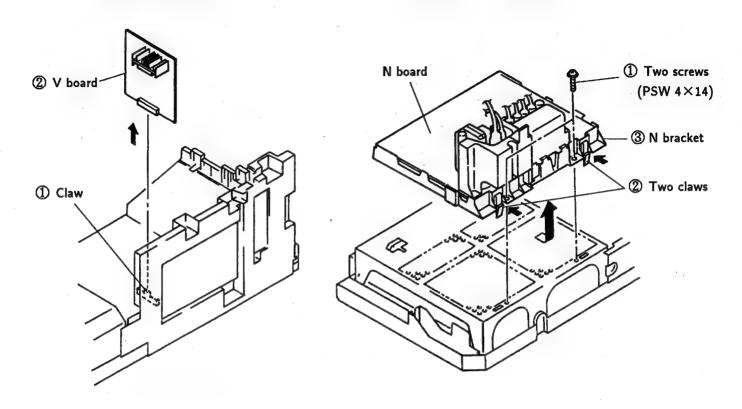


## 2-10. U BRACKET REMOVAL

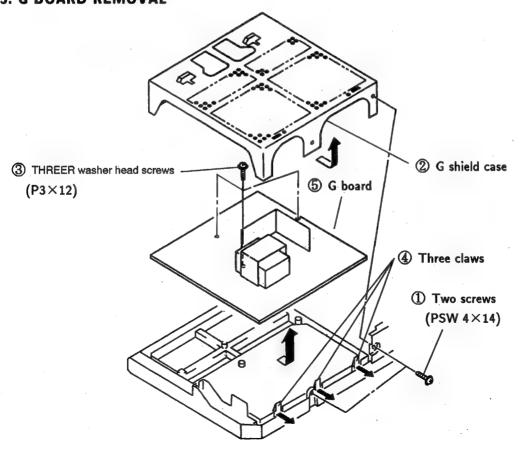


## 2-11. V BOARD REMOVAL

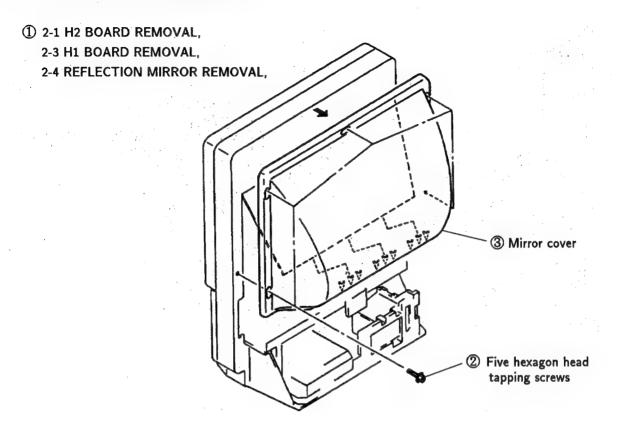
## 2-12. N BRACKET REMOVAL



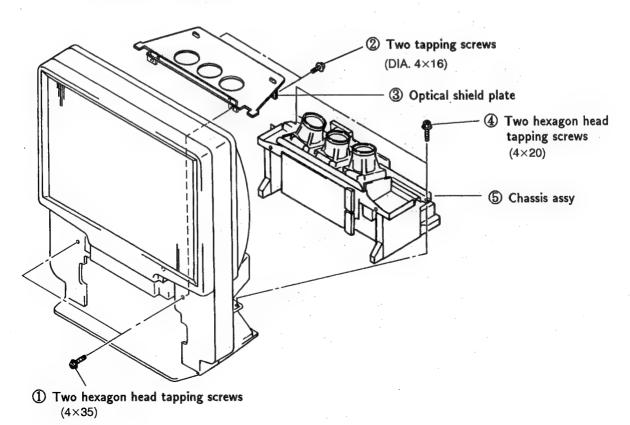
## 2-13. G BOARD REMOVAL

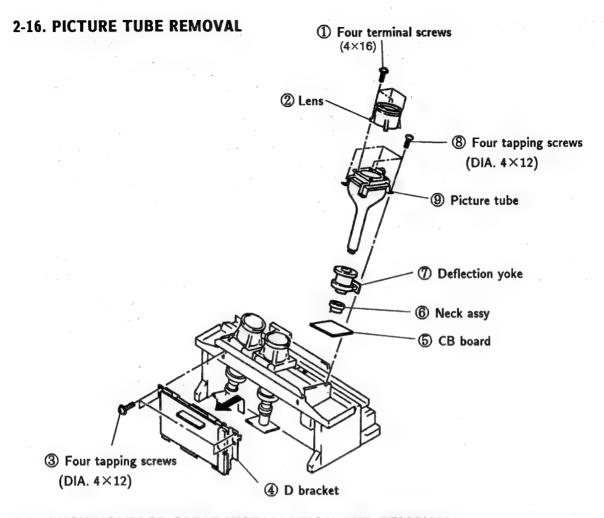


## 2-14. MIRROR COVER REMOVAL

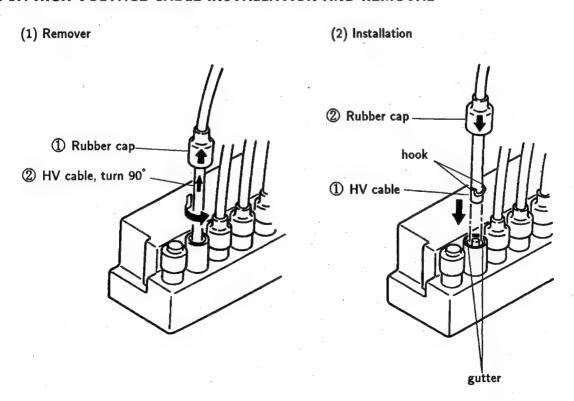


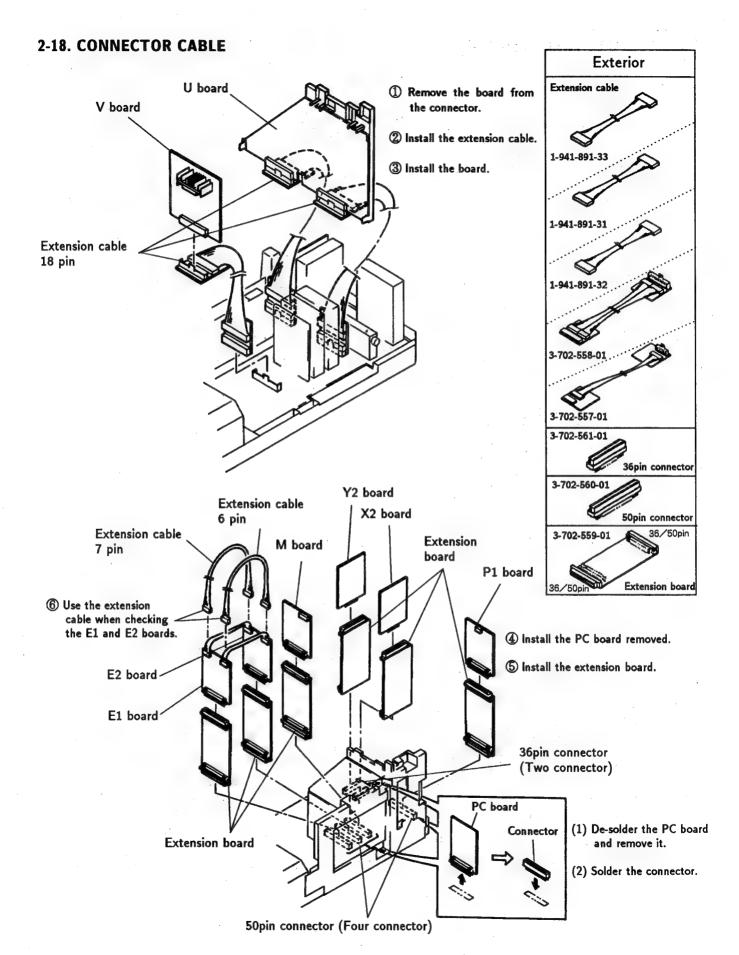
## 2-15. CHASSIS ASSY REMOVAL





### 2-17. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

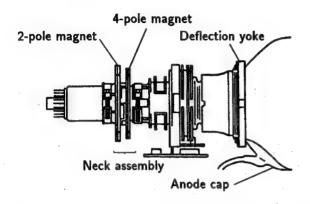




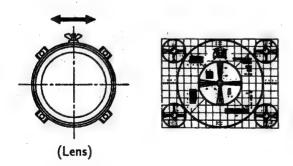
## SECTION 3 SET-UP ADJUSTMENTS

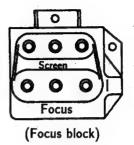
#### 3-1. FOCUS LENS ADJUSTMENTS

- Set the D-board registration variable resistors (VR) to mechanical center.
- 2. Set the centering magnets (for red, green, and blue) to 0 as shown in the figure.

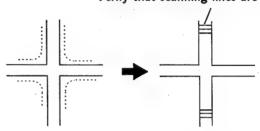


- Input monoscope signal. Set 50% BRIGHTNESS and minimum PICTURE. Make rough adjustment so that 10IRE of the monoscope signal becomes faintly luminous using the screen VRs.
- Set PICTURE and BRIGHTNESS maximum.
   Press the commander menu button. Select
   CONVERGENCE to display test signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- 6. Turn the green lens to eliminate flare of the test signal.

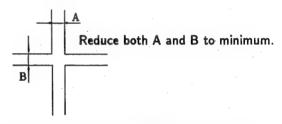




Verify that scanning lines are seen.



7. Turn the green focus VR in the focus block to adjust green focus to reduce both A and B of the test signal to minimum.



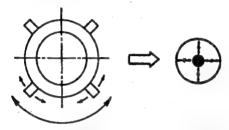
- 8. Repeat avobe 6 and 7. Couple of times to improve tracking and obtain an optimum focus. Then tighten the green lens screw.
- 9. Adjust the red and blue focuses similarly.

## 3-2. DEFLECTION YOKE POSITION ADJUSTMENTS

- 1. Input monoscope signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- 3. Loosen the deflection yoke (DY) fitting screws. Tilt the DY to obtain the best horizontal and vertical monoscope patterns.
- 4. After adjustment, press the DY onto the cathode ray tube (CRT) funnel and tighten the screws.
- 5. Also adjust DY positions for red and blue outputs in the same way.

#### 3-3. 2-POLE MAGNET ADJUSTMENT

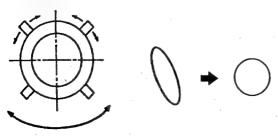
- 1. Input dot signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block counterclockwise from the just focus to brighten the point in the dot.
- 4. Adjust the 2-pole magnet to position the bright point at the center of the dot.
- 5. Adjust the red and blue dots in the same way.
- \* Use the center dot:red and green
  Use the vertical center and left end dot: blue



#### 3-4. 4-POLE MAGNET ADJUSTMENT

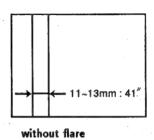
- 1. Input dot signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- 3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block clockwise (counter clockwise: blue) from the just focus until the dot diameter becomes as shown below.
- 4. Adjust the 2-pole magnet to make the dot perfectly round.
- Turn the green focus variable resistor to the just focus.
- 6. Adjust the red and blue dot in the same way.
- \* Use the center dot : red and green

  Use the vertical center and left end dot : blue



## 3-5. DE-FOCUS ADJUSTMENT (BLUE)

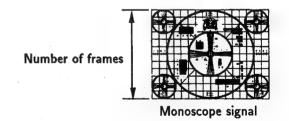
- 1. Input cross hatch signal.
- 2. Turn the blue focus variable resistor (VR) in the focus block counter clock wise so that the width of the left end vertical line becomes as shown below.

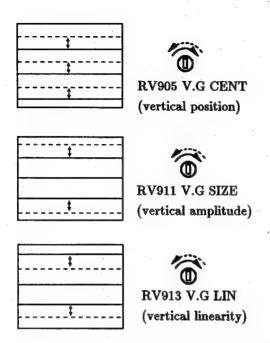


#### 3-6. GREEN PICTURE ADJUSTMENTS

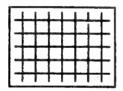
- 1. Input monoscope signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- 3. Turn RV913 and RV960, the vertical green linearity variable resistors (V.G LIN VRs) on the D-board, to obtain an optimum vertical linearity. Then turn RV911, the vertical green amplitube variable resistor (V.G SIZE VR) to set vertical amplitude to 11.7 flames.

Note: The vertical position indicator of the monoscope signal must be positioned at the center by adjusting RV905, the vertical green center position variable resistor (V.G CENT VR) in advance.





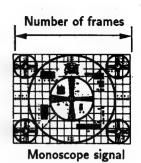
5. Verify that the horizontal lines on the top and bottom of cross-hatched area of the monoscope signal are horizontal and linear.

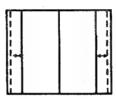


 Turn RV916, RV964 and RV969, the horizontal green linearity variable resistors (H.G LIN VRs) on the D-board, to obtain an optimum horizontal linearity.

Then turn RV908, the horizontal green amplitude variable resistor (H.G SIZE VR) to set horizontal amplitude to 15.6 frames.

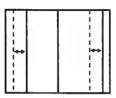
Note: The horizontal position indicator of the monoscope signal must be positioned at the center by adjusting RV902, the horizontal green center position variable resistor (V.G CENT VR) in advance.







RV908 H.G SIZE (horizontal position)



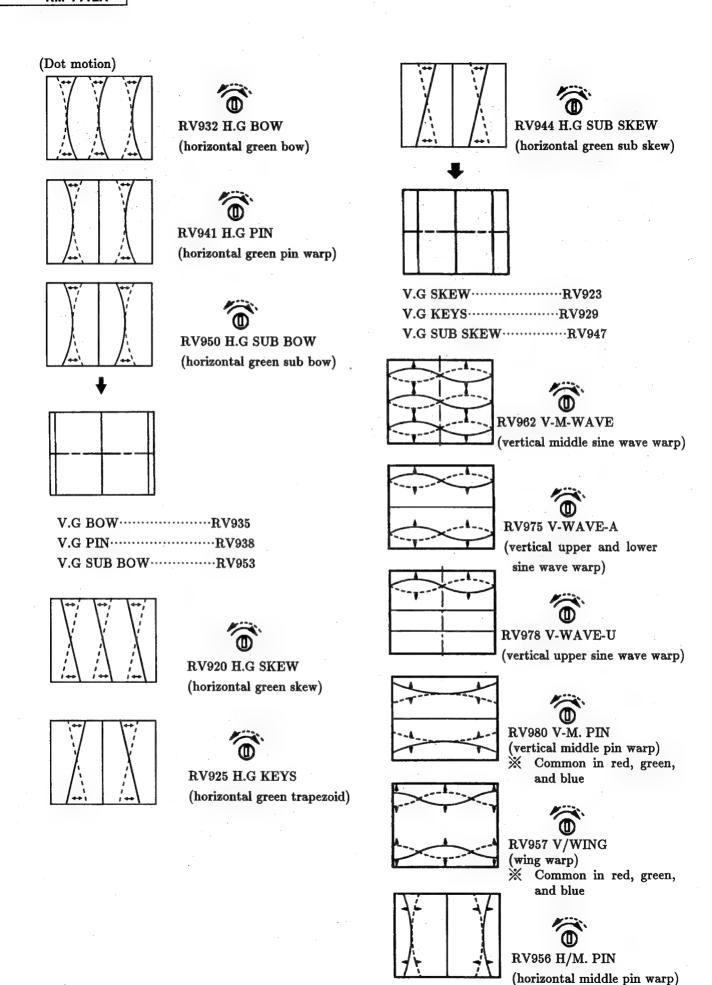


RV916 H.G LIN (horizontal linearity)

Input cross hatch signal.
 Turn vertical green (V.G) and horizontal green (H.G) variable resistors (VRs) and make adjustments according to the following steps:

(Adjustment procedure)

- 1.  $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 2. [PIN (pin warp) ]  $\rightarrow$  [SUB BOW]  $\rightarrow$  [BOW]
- 3. [KEYS (trapezoid) ]  $\rightarrow$  [SUB SKEW]  $\rightarrow$  [SKEW]
- 4. [M.WAVE (middle sine wave warp)] →
   [WAVE-A (upper and lower sine wave warp)] →
   [WAVE-U (upper sine wave warp)]
  - **※** For vertical (V) only.
- [V-M.PIN (vertical middle pin warp)] →
   [V/WING (vertical wing warp)]
  - ※ For vertical (V) only.
- [H-M.PIN (horizontal middle pin warp)]
   For horizontal (H) only.



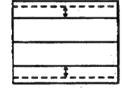
#### **3-7. GREEN** REGISTRATION AND RED **ADJUSTMENTS**

- 1. Input cross hatch signal.
- 2. Enter service mode. Select B OFF of SERVICE MODE to cut off blue output.
- Turn the vertical red (V.R) and horizontal red (H. R) variable resistors (VRs) to adjust red picture convergence in relation to green picture according to the following steps:

### (Adjustment procedure)

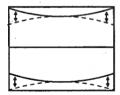
- 1. [LIN (linearity)] → [SIZE (amplitude)] → [CENT (center position)]
- 2.  $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 3. [PIN (pin warp)]  $\rightarrow$  [SUB BOW]  $\rightarrow$  [BOW] [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
- 5. [M.WAVE (middle sine wave warp)] → [WAVE-A (upper and lower sine wave warp)] → [WAVE-U (upper sine wave warp)]

#### (Dot motion)



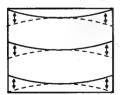


RV912 V.B SIZE (vertical red amplitude)



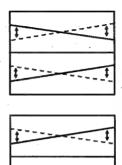


RV952 V.R SUB BOW (vertical red sub bow)



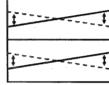


RV943 V.R BOW (vertical red bow)



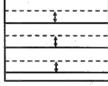


RV928 V.R KEYS (vertical red trapezoid)



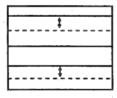


**RV946 V.R SUB SKEW** (vertical red sub skew)



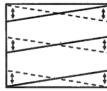


RV904 V.R CENT (vertical red center position)





RV917 V.R LIN (vertical red linearity)





(vertical red skew)

H.R LIN·····	···RV915
H.R SIZE·····	·····RV907
H.R CENT	····RV901
H.R BOW·····	·····RV931
H.R SKEW·····	····RV919
H.R PIN	····RV940
H.R KEYS	···RV926
H.R SUB BOW·····	····RV949
H.R SUB SKEW······	·····RV943
V-M-WAVE······	·····RV973
$\textbf{V-WAVE-A}\cdots\cdots\cdots$	·····RV976
V-WAVE-U	·····RV979
V-M.PIN·····	····RV980
V/WING	····RV957

H/M.PIN .....RV956

## SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

#### Chapter 1: Setting Up

## **Unpacking and Viewing Area**

Carefully follow the instructions on the outside of the packing carton to unpack the projection TV.

#### Notes

- The supplied accessories are packed in the bottom of the carton.

  Be sure not to throw them away.
- Keep the original carton and packing materials to safely transport the projection TV in the future.

Check to make sure that the following is included:

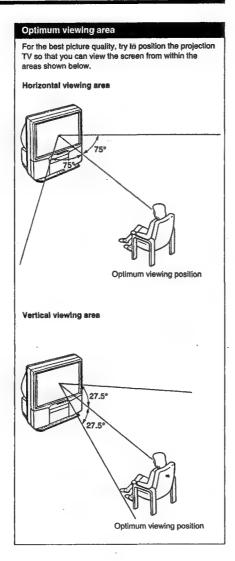
Universal Remote Commander RM-Y112A (1) with ☑ size AA (R6) EVEREADY batteries

If the Remote Commander is missing, contact your dealer.

Place the projection TV in a cool, dry place where the ventilation openings at the sides are not blocked.

4 Plug the projection TV power cord into an AC 120 volt power outlet.

For further precautions, see p. 2.



## **Locating Controls and Connectors**

For details, see the pages indicated by the numbered black circles . Front Main picture input mode/video label Channel number display SLEEP, MUTING displays (The screen displays are the same for all models.) - Channel caption display 🚳 - 🚳 On-screen menu displays PIP (Picture-in-Picture) input mode display 🕦 - 🕦 CURRENT TIME displays Bar display for volume, picture or sound adjustment 19 19 - 19 19 **CLOSED CAPTION** mode display 6 9 - 6 STEREO TIMER CHANNEL +/- buttons POWER switch+ @ @ @ @ Remote control detector VOLUME +/- buttons+ TIMER/STAND BY indicator lamp @ @ @ TV/VIDEO button+ STEREO indicator lamp @ - @

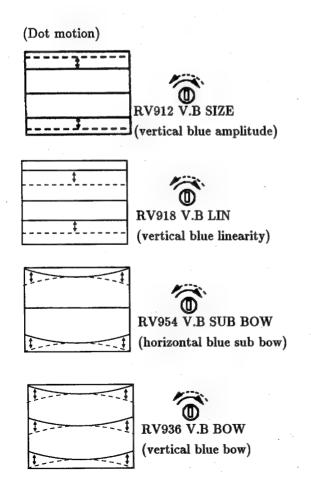
> Buttons with the same function are also located on the Remote Commander (p. 10).

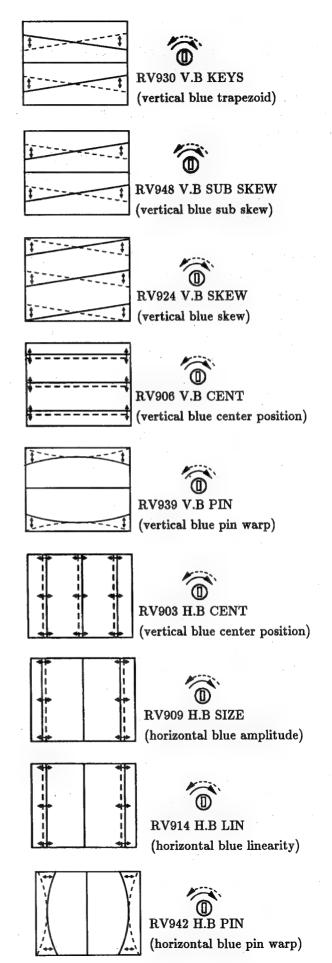
# 3-8. GREEN AND BLUE REGISTRATION ADJUSTMENTS

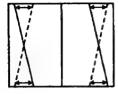
- 1. Input cross hatch signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
- 3. Turn the vertical blue (V.B) and horizontal blue (H.B) variable resistors (VRs) to adjust blue picture convergence in relation to green picture according to the following steps:

#### (Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] →
   [CENT (center position)] →
- 2.  $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 3. [PIN (pin warp)] → [SUB BOW] → [BOW] [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid) ]  $\rightarrow$  [SUB SKEW]  $\rightarrow$  [SKEW]
- [M.WAVE (middle sine wave warp)] →
   [WAVE-A (upper and lower sine wave warp)] →
   [WAVE-U (upper sine wave warp)] →

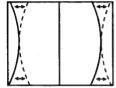






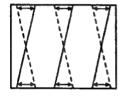


RV954 H.B SUB SKEW (horizontal blue sub skew)

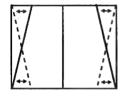




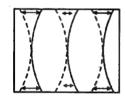
RV951 H.B SUB BOW (horizontal blue sub bow)





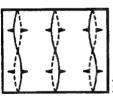






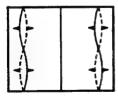


RV933 H.B BOW (horizontal blue bow)





RV981 % Common in red, green, and blue





RV982 % Common in red, green, and blue

H/M PIN·····	······RV958
$\mathbf{M.WAVE}$	······RV961
WAVE-A	······RV974
WAVE-U·····	·····RV977

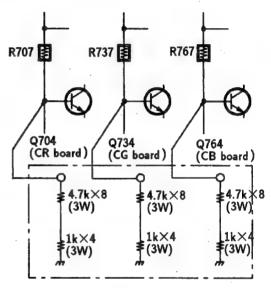
#### 3-9. REGISTRATION CHECK

- 1. Out put red, blue, and green.
- 2. Out put cross hatch and monoscope signals to check registration. Also check focus.

### 3-10. WHITE BALANCE ADJUSTMENTS

#### 1) Screen adjustment

- 1. Input white signal.
- 2. Remove connectors CR-15, CG-16, and CB-17.
- 3. Fit jigs between the ground and R707, R737, and R767.



\* Resistors in each jig are connected serial.

- 4. Turn the RGB (red, green, and blue) screen variable resistors in the focus block to make the flyback line faint. Stop before the line completely disappears.
- 5. Insert connectors CR-15, CG-16, and CB-17.

- 2) White balance adjustments (SBRT, GAMP, BAMP, GCUT, BCUT)
- 1. Input monoscope signal and enter service mode.
- 2. Select the picture quality adjustment from the menu and set PICTURE minimum.
- 3. Use the commander to adjust SBRT so that 10 IRE of the monoscope pattern becomes faintly luminous.
- 4. Input white signal.
- 5. Set PICTURE minimum. Adjust item GCUT and BCUT to obtain an optimum white balance.
- 6. Set PICTURE maximum. Adjust GAMP and BAMP to obtain an optimum white balance.
- 7. Repeat white balance adjustment alternating PICTURE setting at the minimum and maximum.

## SECTION 4 SAFETY RELATED ADJUSTMENTS

#### 4-1. SAFETY RELATED ADJUSTMENTS

When replacing the following components, make the HV REGULATOR adjustments (on the N board)

Wind HV block, IC803, IC805, D805, D807, C817,
 C818, C821, C836, C837, R824, R825, R827,
 R828, R834,R835, R836, R864, R865, R866,
 R902

When replacing the following components, make the HV HOLD DOWN adjustments (on the N board)

William
<

When replacing the following components, make the BEAM CURRENT PROTECTOR adjustments (on the N board)

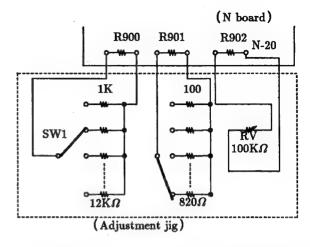
- IC802, Q805, Q807, D811, D812,C810,
  C824, C825, C826, C827, C831,
  R810, R843, R844, R847, R848, R849,
  R850, R851, R852, R853, R854, R881
  - ② IC804, Q804, Q808, D808, D809, C809, C828,C829, C830, C831, R807, R839, R840, R841,R847, R848, R849, R850, R851, R852, R855, R856, R857, R881

When replacing the following components, make the OVP CIRCUIT adjustments (on the G board)

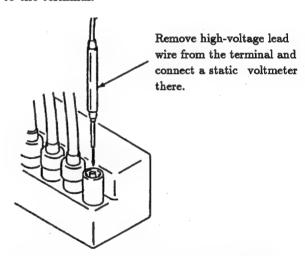
- Z······Q618, Q621, D628, C634, R639, R649, R652, R655, R656
- Checking with static voltmeter

#### HV HOLD DOWN ADJUSTMENTS (☐R900, R901)

- 1. Verify that the power switch is off.
- Connect the HV hold down adjustment resistance jig to the N20 connector on the N board.



- 3. Connect an external variable resistor (RV) to R 902 of the N board.
- 4. Remove the cap off from the unused terminal of the high voltage block. Connect a static voltmeter to the terminal.



- Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
- 6. Use the external variable resistor of the hold down adjustment jig to make the static voltmeter to read  $33.50 \pm 0.50 \text{kVDC}$ .
- Raise resistances with the jig until the HV hold down circuit is activated. Read the figures then, and mount resistance of the measured figures to R900 and R901.

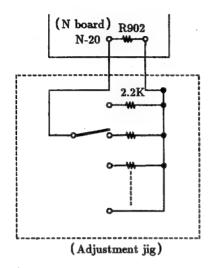
R900: Must be  $1k\Omega$  to  $12k\Omega$ 

R901: Must be Jw  $100\Omega$  to  $820\Omega$ 

 Turn on power again. Vary external variable resistance and confirm that the HV hold down circuit is activated at the reated value, 33.50± 0.50kV.

### HV REGULATOR ADJUSTMENTS (☐R902)

1. Connect the HV adjustment resistance jig to R902 of the N board.



- 2. Remove the red anode lead wire for the CRT tube from the high-voltage block and connect the static voltmeter instead.
- Receive 120 VAC power voltage and monoscope pattern signal. Set PICTURE and BRIGHTNESS to the standard.
- 4. Turn on power. To adjust the resistance of R902 with the adjustment jig to read the rated value,  $31.50\pm0.50$ kV.
- Receive all-white signal. Set BRIGHTNESS to the standard. Maximize PICTURE. Confirm that the rated value, 31.50±0.50kV is read.
- Cut off RGB by R OFF, G OFF, B OFF of the service commander. Verify that the rated value, 31.50±0.50kV, is read.

#### +B VOLTAGE CONFIRMATION

- Receive 120±1 VAC power voltage and monoscope pattern signal. Set BRIGHTNESS to standard and maximize PICTURE.
- 2. Connect a digital multimeter between the 115V line and the ground on the G board, and confirm that the rated value, 115.0 30V is read.

#### CHECKING AFTER REPLACING IC601

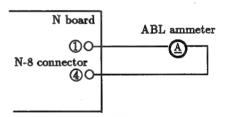
1. When replacing IC601, check the +B voltage.

## CHECKING THE OVP (overvoltage protection) CIRCUIT (▶R652)

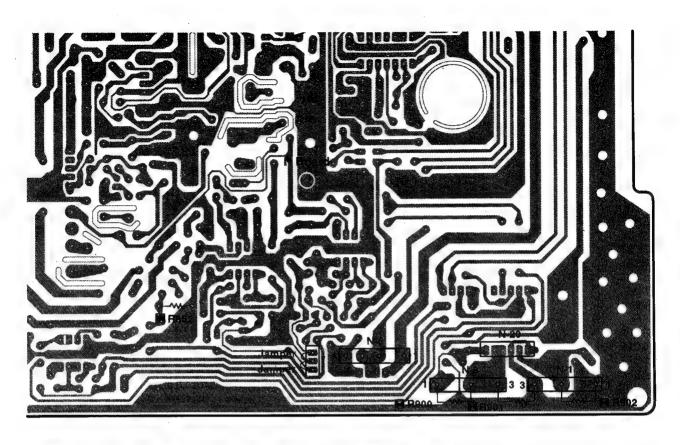
- Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
- 2. Remove R638 from the G board and connect a variable resistor (4.7 to  $10k\Omega$ ) instead.
- 3. Turn the variable resistor of  $10k\Omega$  and confirm that the OVP circuit is activated and luster disappears when +B voltage reads the rated value,  $125.0\pm5.0$  VDC.

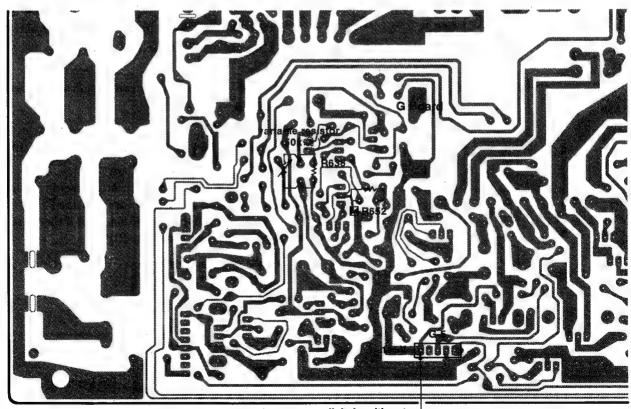
### BEAM CURRENT PROTECTOR CHECK (MR852)

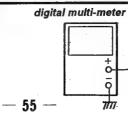
- 1. Receive 120 VAC power voltage and monoscope pattern signal. Maximize BRIGHTNESS.
- Connect pin① and pin② of the N-21 connector.
   (on the N board)
- 3. Remove the jumper connector from the N-8 connector on the N board. Then connect an ABL ammeter between pin ① and pin ④ of the N-8 connector.



- 4. Raise PICTURE current gradually. Confirm that the beam current protector circuit is activated and luster disappears under the rated value,  $3400 \mu A$ .
- 5. Connect pin and pin of the N-21 connector. Verify that the protector circuit is activated and luster disappears similarly.







Checking without static voltmeter

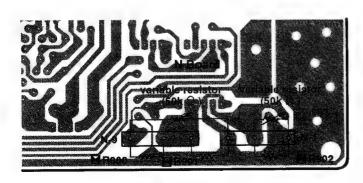
#### HV HOLD DOWN ADJUSTMENT (☐R900, ☐R901)

- 1. Receive all-white signal. Maximize PICTURE and BRIGHTNESS.
- 2. Remove R902 from the N board. Connect a variable resistor of  $50k\Omega$  on each end, and minimize the resistance.
- 3. Remove R900 and R901 from the N board. Connect a variable resistor of  $50k\Omega$  on each end, and minimize the resistance.
- 4. Connect a digital voltmeter between the D801 cathode and chassis ground of the N board.
- Turn on the power switch. Adjust the variable resistors connected to the R902 of the N board to make the digital multimeter to read 145.0VDC.
- Adjust the variable resistors connected to R900 and 'R901 on the N board so as to activate the HV hold down circuit and turn off the display.
- Read the variable resistors connected to R900 and R901 and mount fixed resistors of measured resistance to the terminals.

Note: Select fixed resistance from the following ranges.

R900:  $1k\Omega$  to  $12k\Omega$ R901: Jw  $100\Omega$  to  $820\Omega$ 

- 8. Maximize resistance of the variable resistor connected to R902 of the N board and turn on power.
- 9. Vary variable resistance at R902. Confirm that the HV hold down circuit is activated and the display is turned off when voltage reads  $134\pm1.0$ V.

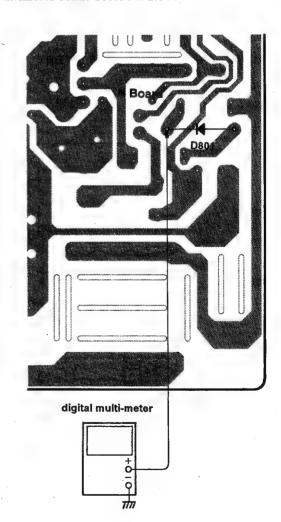


#### HV REGULATOR ADJUSTMENT (☑R902)

- 1. Receive all-white signal. Maximize PICTURE and BRIGHTNESS.
- Connect a variable resistor of 50kΩ on each end of R902 of the N board. Maximize resistance.
- 3. Connect a digital voltmeter between the D801 cathode and the chassis of the N board.
- 4. Turn on power. Adjust the variable resistor so that the digital multimeter reads  $135.0V \pm 1.0V$ .
- 5. Read the variable resistance then.
- 6. Mount a fixed resistor of the measured resistance to R902.

Note: R902: Must be  $2.2k\Omega$  to  $27k\Omega$ 

7. Turn on power again. Confirm that the digital multimeter reads 135.0V±1.0V.



## SECTION 5 CIRCUIT ADJUSTMENTS

# 5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

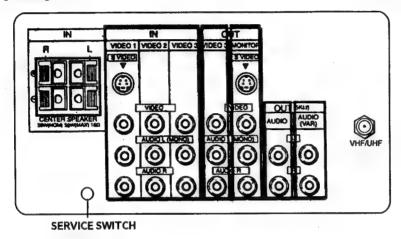
Use of Remote Commander (RM-Y112A) can be performed circuit adjustments about this model.

#### 1. METHOD OF SETTING THE SERVICE MODE

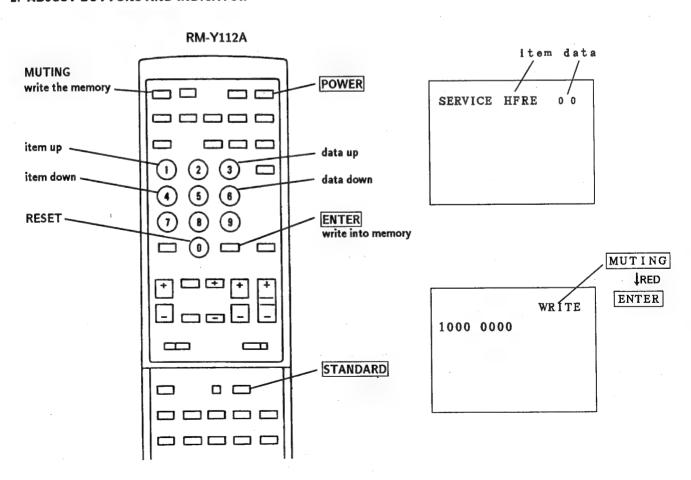
1) Press POWER button on the Remote Commander while pressing switch on the rear of the set.

NOTE: Test Equipment Required.

- 1. Pattern Generator
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio OSC



#### 2. ADJUST BUTTONS AND INDICATOR



#### 3. AN ITEM OF ADJUSTMENT

ITEM	REFERENCE DATA	NA	ME REGIST
AFC	0	VP	AFC 1.0
HFRE	74	VP	H. FREQUENCE
VFRE	16	VP	V. FREQUENCE
HPOS	5	VP	H. PHASE
GAMP	25	VP	GREEN AMP.
ВАМР	26	VP	BLUE AMP.
GCUT	9	VP	GREEN CUT OFF.
BCUT	6	VP	BLUE CUT OFF
SPIX	40	VP	PICTURE
SHUE	29	VP	HUE
SCOL	28	VP	COLOR
SBRT	11	VP	BRIGHT
RGBP	28	VP	RGB PICTURE
SHAR	13		SHARPNESS
DISP	24		OUTPUT
VSMO	0	VP	VSMO
REF	1	VP	REF 1.0
ROFF	1	VΡ	OFF NR
GOFF	1	VP	OFF NG
BOFF	1	VP	OFF NB
ABLM	0	VP ·	ABLM
DRGB	0	VP	D RGB
TEST	0	AP	T
MPX	7	AP	ATT
FILO	31	AP	11
DEEM	7	AP	12
STEV	31	AP	OSC 1
SAPV	31	AP	OSC 2
PILO	7	AP	PILOT
SEP	31	AP	WIDE BAND
VD	7	AP	SPECTRAL
LVOL	0	AP	VOLUME-L
RVOL	0	AP	VOLUME-R
BASS	8	AP	BASS
TRE	8	AP	TREBLE
PHPO	32	PI	READ DELAY H
PVPO	8	PI	READ DELAY V
PLEV	6	PI	PICTURE LEVEL
PFCO	7	PI	FRAME COLOR
PPLL	1	PI	PLLOF
PPVS	6	Pi	VSPDEL
NRLE	31		NR LEVEL
DSPP	43		SHADON
SHAD	1	PJ	SHADON
VMSW	16	PJ PJ	RS HAD
SCUT	10	FJ	SHAD CUT OFF

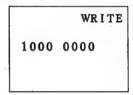
## 4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press POWER button on the commander) in the next place, press POWER button again, hereupon it becomes TV mode.

#### 5. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press 1 (UP) and 4 (DOWN), select an item of adjustments.
- 3) Press MUTING button indicate WRITE (RED) on screen.
- 4) Press ENTER button to write for memory.

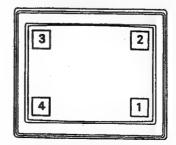
#### 6. MEMORY WRITE CONFIRMATION METHOD



- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.

## 7. PUB PICTURE POSITION ADJUSTMENT (PHPO, PUPO)

Note: Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.



**PIP Positions** 

After making adjustments into the PIP 1 position, write the information into the ROM.

Next, unplug the unit and recheck the other three positions. Adjustments made to the number 1 position will affect the other three positions.

#### 5-2. A BOARD ADJUSTMENTS

### RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Adjust AGC VR of TU 101 so that snow noise and cross-modulation disappear from the picture.
- 3) Confirm them at every channel.

### H.FREQUENCY ADJUSTMENT (HFRE)

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Connect a frequency counter to pin<sup>3</sup> of A-10 connector.
- 4) Call the item of AFC, set to 3 level (free run).
- 5) Select HFRE with 1 and 4.
- 6) Adjust 3 and 6 to the  $15735 \pm 60$  Hz level.
- 7) Call the item of AFC again, adjust the level" 01".
- 8) Write into the memory by pressing MUTING → then ENTER.

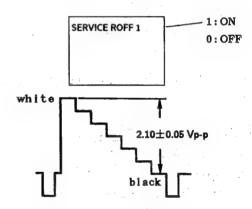
## V.FREQUENCY ADJUSTMENT (VFRE)

- 1) Set the Service Mode.
- 2) Input an off-air signal (VIDEO IN → no signal).
- Connect the frequency counter across connector
   pin of E 1-1 connector and ground.
- 4) Select VFRE with 1 and 4.
- 5) Adjust 3 and 6 to the  $\frac{55}{2} \pm 0.5$  Hz.
- 6) Write the memory by pressing MUTING  $\rightarrow$  then ENTER.

### SUB CONTRAST ADJUSTMENT (SPIX)

- 1) Set to Service Mode.
- 2) Input a color-bar signal. (75 IRE)
- 3) Set the conditions as follows.

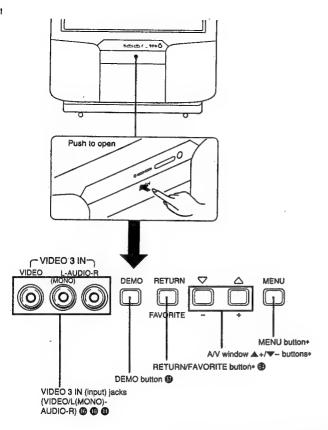
PICTURE	MAX
COLOR	MIN
BRIGHTNESS	MIN
TRINITONE	······ LOW
R OFF	ON
G OFF	OFF
BOFF	OFF



- 4) Connect an oscilloscope to @pin of E1-1 connector on A board and ground.
- 5) Adjust 3 and 6 to the 2.10  $\pm$  0.05 Vp-p level by selecting SPIX with 1 and 4.
- 6) Write the memory by pressing MUTING → then ENTER .
- Return the following back to normal after adjustment.

G OFF	ON
B OFF	ON
COLOR	······ CENTER
BRIGHTNESS	······ CENTER
TRINITONE	<b>НІ</b> GН
PICTURE	80%

Front inner panel

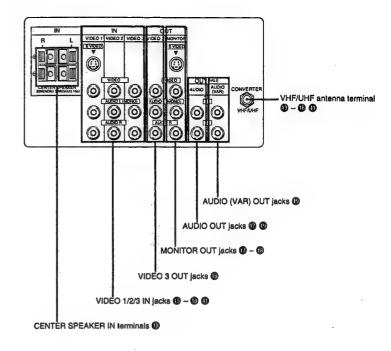


\* Buttons with the same function are also located on the Remote Commander (p. 10).

#### Note

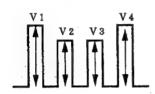
The instructions in this manual are based for the most parl on operating the projection TV with the Remote Commander. You can also use the buttons on the projection TV that have the same function.

Rear



### SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

- 1) Input a color-bar signal.
- 2) Press STANDARD to normal.
- 3) Set to Service Mode.
- 4) Connect an oscilloscope to pin of E1-1 connector on A board and ground.
- 5) Adjust 3 and 4 to the V1=V4 and V2=V3 by select to SHUE and SCOL with 1 and 4. Lower the data 4 steps from this point.

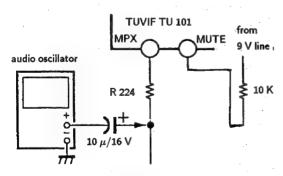


6) Write into the memory by pressing MUTING →then ST VCO ADJUSTMENT (MPX, STEV) ENTER .

## FILTER ADJUSTMENT (MPX, FILO)

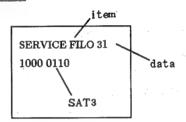
- 1) Set to Service Mode.
- 2) Select to TEST with 1 and 4, set the data to "1". Then select MPX and change data to "8".
- 3) Connect an audio oscillator to R224 using a capacitor ( $10\mu \text{ F}/16\text{V}$ ), set frequency to 62.936  $kHz \pm 0.1 kHz$ .

And then, through the  $10k\Omega$  resistor, feed 9.0V into the mute of TUVIF TU 101.

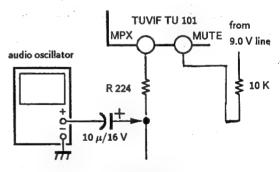


V 4 fh: SINE-WAVE 62.936 KHz ±0.1 KHz LEVEL 3.0 Vp-p

- 4) Make the data "00" by selecting FILO with [1] and 4 And then, send up the data gradually by pressing 6 . Set the data to D1 before SAT3 changing to 1 from 0.
- 5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
- 6) Adjust the data of FILO to D 1 + D 2
- 7) Write into the memory by pressing MUTING then ENTER .

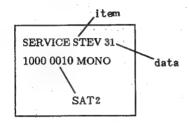


- 1) Set to Service Mode.
- 2) Select TEST with 1 and 4, set the data to "1". And then press MTS to MONO.
- 3) Select MPX, set the data "8".
- 4) Connect an audio oscillator to R 224 using electrolytic capacitor ( $10\mu \text{ F}/16\text{V}$ ) and appply the frequency Vst. Then, apply DC voltage to mute of TUVIF TU 101 using  $10k\Omega$  connect to 9.0 V line.



Vfh: SINE-WAVE 15.734 KHz ± 0.1 KHz LEVEL 0.28 Vp-p

- 5) Select STEV with 1 and 4, set the data to "00" with 6. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
- 6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
- 7) Adjust the data of STEV to (D 1+D 2)/2.
- 8) Write into the memory by pressing MUTING --then ENTER.



### MPX IN LEVEL ADJUSTMENT (MPX)

- 1) Set to Service Mode.
- 2) Select TEST with 1 and 4, set the data to "0" with 6. And then press MTS to MONO.
- 3) Select MPX with 1 and 4, set the data to "8" with 3 and 6.
- 4) Write into the memory by pressing MUTING → then ENTER .

## PILOT CANCEL ADJUSTMENT (PILO)

- 1) Set to the Service Mode.
- 2) Select PILO with 1 and 4, set the data to "08" with 3 and 6.
- 3) Write into the memory by pressing MUTING

  → then ENTER .

## SAP VCO f . ADJUSTMENT (SAPV)

- 1) Set to Service Mode.
- 2) Input a stereo broadcast signal with SAP.
- 3) Select TEST with 1 and 4, set the data to "0" And then, press MTS to MAIN.
- 4) Connect a digital multimeter to TP-1(DBX). This voltage reading will equal V 1.
- 5) Press MTS to SAP and this voltage will equal V 2.
- 6) Select SAPV with and 4, adjust and 6 so that V 2=V 1±0.03 VDC.
- 7) Write the memory by  $\boxed{\text{MUTING}} \rightarrow \boxed{\text{ENTER}}$ .

### SEPARATION ADJUSTMENT (SEP)

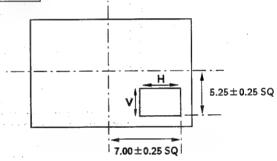
- 1) Set to Service Mode.
- 2) Press MTS to MAIN and receive a monoral broad -cast signal.

In the next step, receive a stereo broadcast signal.

3) Select SEP and VD with 1 and 4, adjust 3 and 6 so that a clear stereo sound is effected.

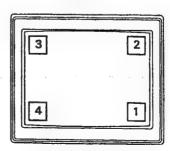
## SUB PICTURE POSITION ADJUSTMENT (PHPO, PVPO)

- 1) Input a cross hatch signal.
- 2) Set to service mode.
- Press PIP to display a sub picture.
   (RIGHT LOWER Position)
- 4) Select PHPO, PVPO with 1 and 4
- 5) Adjust 3 and 6 to the standard as shown below.
- 6) Write the memory by pressing MUTING → then ENTER.



## PUB PICTURE POSITION ADJUSTMENT (PHPO, PUPO)

Note: Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.



PIP Positions

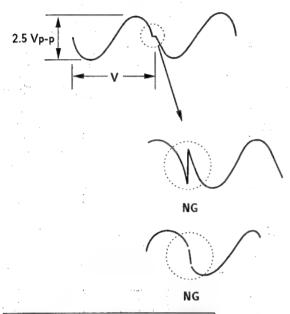
After making adjustments into the PIP 1 position, write the information into the ROM.

Next, unplug the unit and recheck the other three positions. Adjustments made to the number 1 position will affect the other three positions.

#### 5-3. DS BOARD ADJUSTMENTS

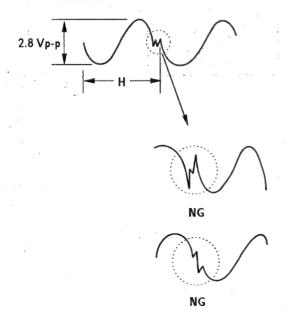
#### V. 3 WAVE ADJUSTMENT (RV983)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin of DS board ground.
- 3) Adjust RV983 as shown the following figure.

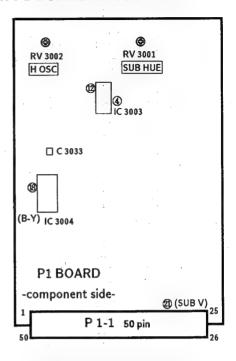


## H. 3 WAVE ADJUSTMENT (RV984)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin① of DS board ground.
- 3) Adjust RV984 as shown the following figure.

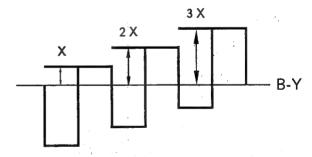


#### 5-4. P1 BOARD ADJUSTMENTS



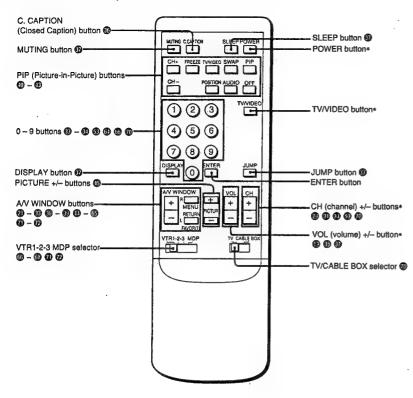
#### SUB HUE ADJUSTMENT (RV 3001)

- 1) Set HUE and COLOR to the standard condition.
- 2) Make adjustment so that B-Y signal as shown to the right is obtained at the crossing point of R 3009 (0  $\Omega$ ) and C 3033.
- 3) Supply the color bar signal of 75 IRE (white) at 2 Vpp to Pin ② (SUB V) of P 1-1 and make adjustment by turning RV 3001.



## H. FREQUENCY (H OSC) ADJUSTMENT (RV-3002)

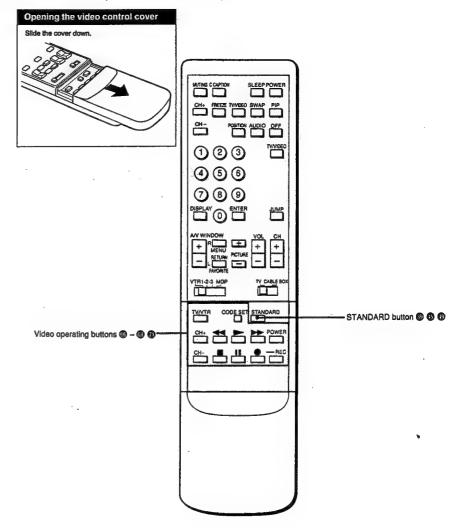
- 1) Connect a frequency counter to Pin 4 (H OUT) of IC 3003.
- 2) Connect Pin ② of IC 3003 to ground.
- 3) Adjust RV3002 for a frequency of 15.734 kHz ± 50 Hz at Pin (4) of IC 3003.
   (or until the frequency comes to a standstill.)



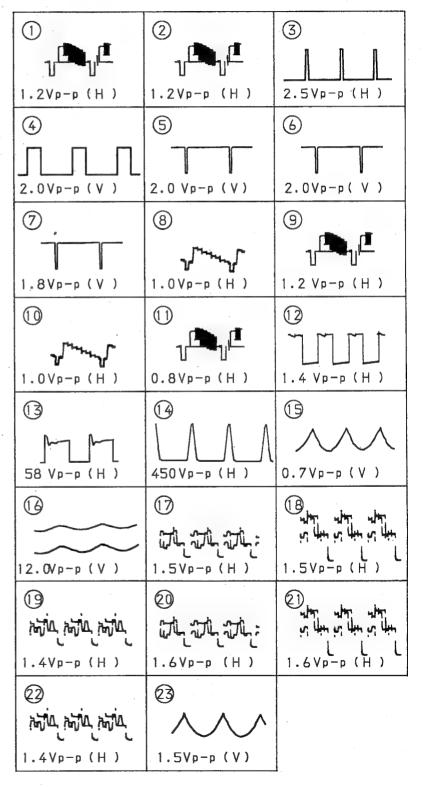
\* Buttons with the same function are also located on the projection TV (p. 7).

If the TV/CABLE BOX selector is set to CABLE BOX, the Remote Commander is able to control a connected cable box, not the projection TV (p. 70). Set the selector to TV to control the projection TV with the Remote Commander.

Remote Commander (with the video control cover open)

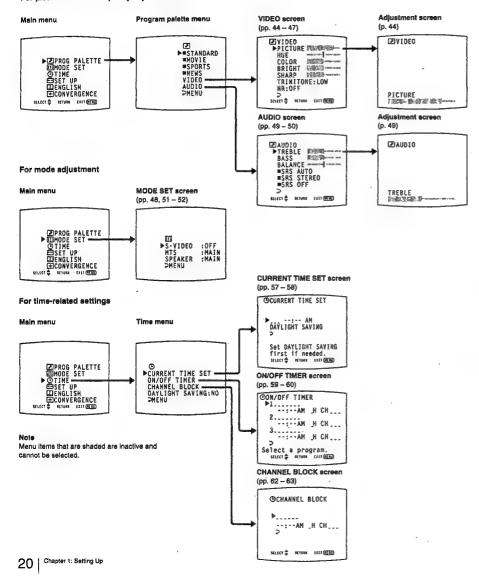


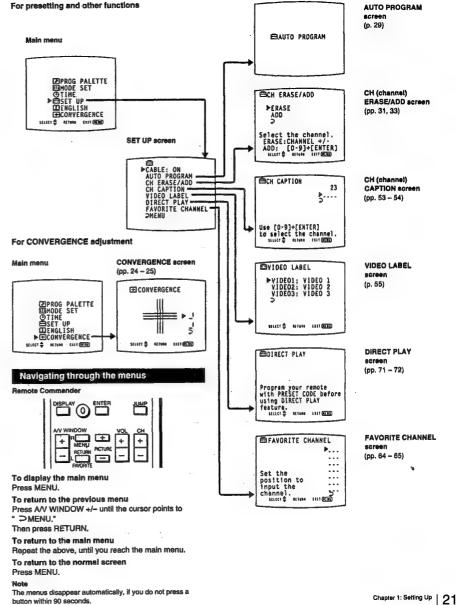
#### • A BOARD WAVEFORMS



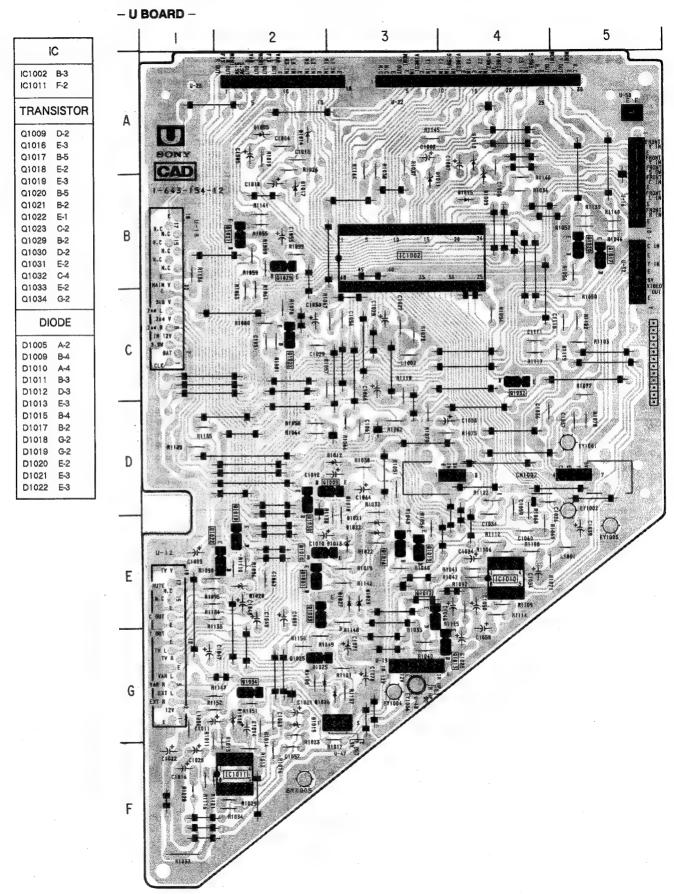
The following flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings. See the indicated pages for instructions on using each feature.

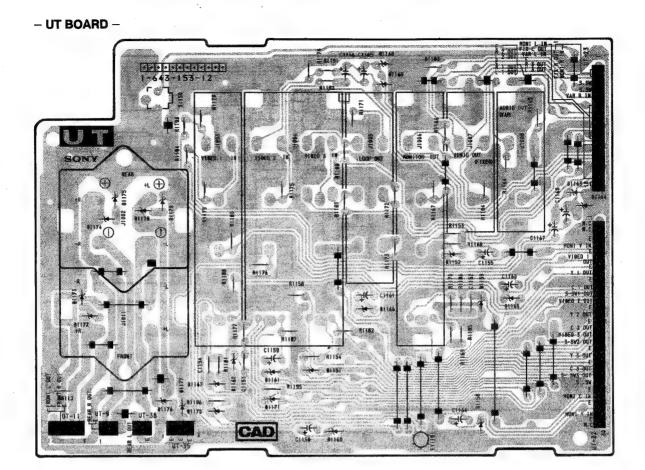
#### For picture and sound quality adjustment









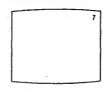


### Changing the menu language

The menu language is factory-set to ENGLISH. Follow these instructions to change the menu language to Spanish or French, or back to English.

Press POWER to turn on the projection TV. TIMER/STAND BY indicator blinks until the picture





Press MENU. The main menu appears

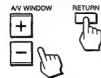


DPROG PALETTE
MODE SET
OTIME
SET UP
DENGLISH
ECONVERGENCE

PPROG PALETTE
MMODE SET
OTIME
SET UP
MENGLISH **ECONVERGENCE** SELECT C GETUIN EXIT (EX)

Press A/V WINDOW +/- until the cursor points to "ENGLISH." Then press RETURN.

The language display turns red.



Press A/V WINDOW +/- to select the language. Each time you press A/V WINDOW +/-, the "ESPAÑOL," "FRANÇAIS" and "ENGLISH" menus appear.



EDAJUSTE DE MODO
CHORA
EDAJUSTES
EDESPAÑOL
EDCONVERGENCIA
SELECE DE 1818/00 ESTE (EDE

**DFRANCAIS ECONVERGENCE** serect # netwen exit @CBB

MENGLISH ⊞CONVERGENCE SELECT & RETURN EXIT (FER

Certain parts of the "ESPAÑOL" and "FRANÇAIS" menus remain in English.

Press RETURN. The language is selected.



DSELECCION A/V
EBAJUSTE DE MODO
O HORA
EBAJUSTES
DESPAÑOL
ECONVERGENCIA
SECET \$ ATERA ENT CENT

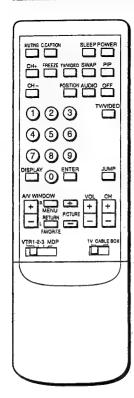
Spanish menu

To return to the normal screen. Press MENU.

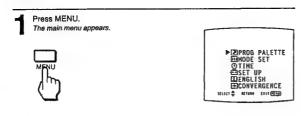
Notes concerning menus

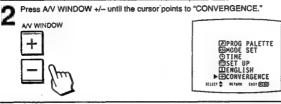
- . During PIP (Picture-in-Picture) mode, the on-screen menus may overlap the window
- The menus disappear automatically, if you do not press a button within 90 seconds.

## **Adjusting Color Registration (CONVERGENCE)**

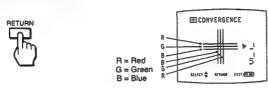


In a projection TV, the projection tube image appears on the screen in three color layers (red, green and blue). If these layers are not in proper registration, the color is poor and the picture blurs. To correct this, perform the CONVERGENCE



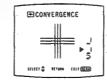


Press RETURN. The CONVERGENCE screen and the colored adjustment lines appear.



Press AV WINDOW +/- until the cursor points to the symbol representing Press AV WINDOW +/- until the cursor points the line you want to adjust (see the key below).





Adjustment line symbols key

- (red vertical: left/right adjustment)
- (red horizontal: up/down adjustment)
- (blue vertical: left/right adjustment) - (blue horizontal: up/down adjustment)

Press RETURN. The adjustment line is selected.





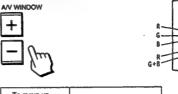
**ECONVERGENCE** 

To return to the previous menu Press A/V WINDOW +/- until the cursor points to " ⊃ MENU." Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.



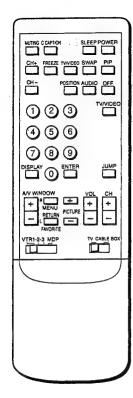


To move up To move right	Press A/V WINDOW +.
To move down To move left	Press A/V WINDOW

Repeat steps 4 - 6 to adjust the other lines, until all the lines have overlapped to form a white cross.



## **Setting CABLE ON or OFF**



If you have cable connected to the projection TV, follow the steps below to set the cable connection on or off. Set CABLE OFF to preset or watch VHF or UHF channels, and set CABLE ON to preset or watch cable TV channels.

#### ote

If the projection TV is in video mode, the "CABLE" display is shaded and cannot be selected.

Press TV/VIDEO to change to TV mode.



Press AV WINDOW +/- until the cursor points to "SET UP."



IPPROG PALETTE

IPPRODE SET

OTIME

ISSET UP

IDENGLISH

GEOWYERGENCE

MICE! \$ NIVER ENTERN

Press RETURN.
The set up menu appears, and the cursor points to "CABLE."



CABLE: ON
AUTO PROGRAM
CH ERASE/ADD
CH CAPTION
VIDEO LABEL
DIRECT PLAY
FAVORITE CHANNEL
DMENU

4 Press RETURN again.
The mode display turns red.



CABLE: ON
AUTO PROGRAM
CH ERASE/AOD
CH CAPTION
VIDEO LABEL
DIRECT PLAY
FAVORITE CHANNEL
>MENU

Press AV WINDOW +/- to select "ON" or "OFF."

AV WINDOW

H
CABLE: OFF
AUTO PROGRAM
CH ERASE/ADD
CH CAPTION
VIDEO LARCT PLAY
FAVORITE CHANNEL

6 Press RETURN.
The setting is complete.



CABLE: OFF
AUTO PROGRAM
GH ERASE/ADD
CH CAPTION
YIDEO LABEL
DIRECT PLAY
FAVORITE CHANNEL
CHENU

To return to the previous menu

Press A/V WINDOW +/- until the cursor points to " > MENU."

Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.

#### Cable TV channel charts

Cable TV systems use letters or numbers lo designate channels. To tune in a channel, refer to the chart below.

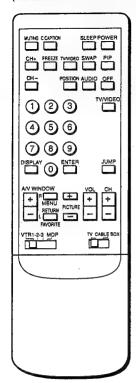
Number on this TV	Corresponding
	CATV channel
1	A-8
5	A-7
6	A-6
14	Α
15	В
16	C
17	D
18	E
19	F
20	G
21	Н
22	1
23	J
24	K
25	L
26	М
27	N
28	0
29	P
30	Q
31	R
32	S
33	T
34	Ü
35	V
36	W
37	W+1
38	W+2
39	W+3
•	
	:
93	W+57
94	W+58
95	A-5
96	A-4
.97	A-3
98	A-2
99	A-1
100	W+59
101	W+60
102	W+61
•	N
:	
:	:
123	W+82
	W+83
125	W+84
163	11107

Check with your local cable TV company for more complete information on the available channels

The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

## **Presetting TV Channels**

By presetting TV channels to the projection TV, you can select channels by pressing CH (CHANNEL) +/-. (You can select VHF channels E - 13 without presetting.)

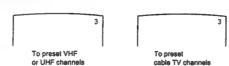


### Presetting all receivable channels automatically

Follow these instructions to preset all the receivable VHF, UHF or cable TV channels to the projection TV.

#### Notes

- . If the projection TV is in video mode, the "AUTO PROGRAM" display is shaded and cannot be selected. Press TV/VIDEO to change to TV mode.
- . Perform auto programming during the day rather than late at night, when some channels may not be broadcasting.
- Set the cable connection on or off (pp. 26 27) to select the type of channel you want to preset, VHF/UHF or cable TV.



Press MENU. The main menu appears.



DPROG PALETTE

MODE SET

OTIME

SET UP

DENGLISH

ECONVERGENCE

Press AV WINDOW +/- until the cursor points to "SET UP."



PPROG PALETTE

BMODE SET

OTIME

►SET UP

DENGLISH

ECONVERGENCE

Press RETURN. Press RETURN.

The set up menu appears.



PCABLE: ON AUTO PROGRAM CH ERASE/ADD CH CAPTION VIDEO LABEL DIRECT PLAY FAVORITE CHANNEL

Press A/V WINDOW +/- until the cursor points to "AUTO PROGRAM."



CABLE: DN

AUTO PROGRAM
CH ERASE/ADD
EN CAPTION
VIDEO LABEL
OIRECT PLAY
FAYORITE CHANNEL

Press RETURN.





"AUTO PROGRAM" appears on the screen and receivable channels (other than the channels already preset) are preset in numerical sequence. The channels previously preset will not remain in the projection TV's memory.

When no more channels are found, auto programming stops and the screen returns automatically to the set up menu.

Press CH +/- to check or view the preset channels.





Receivable channels for this projection

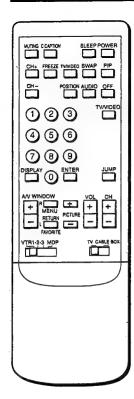
VHF: 2 - 13 UHF: 14 - 59 Cable: 1 - 125

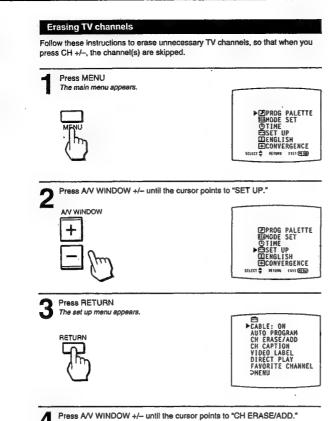
To select TV channels without presetting Press the 0 - 9 buttons and ENTER.

To return to the previous menu Press AV WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

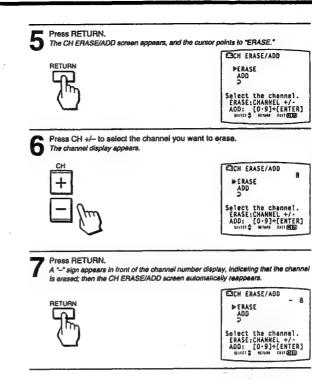
To return to the normal screen. Press MENU.





CABLE: ON AUTO PROGRAM CH ERASE/ADD CH CAPTION VIDEO LABEL DIRECT PLAY FAVORITE CHANNEL

AV WINDOW



To erase another channel Repeat steps 5 - 7.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

If you erase a VHF or UHF channel, the same number cable TV channel is also erased (and vice versa).

# SECTION 7 EXPLODED VIEWS

specified.

### NOTE:

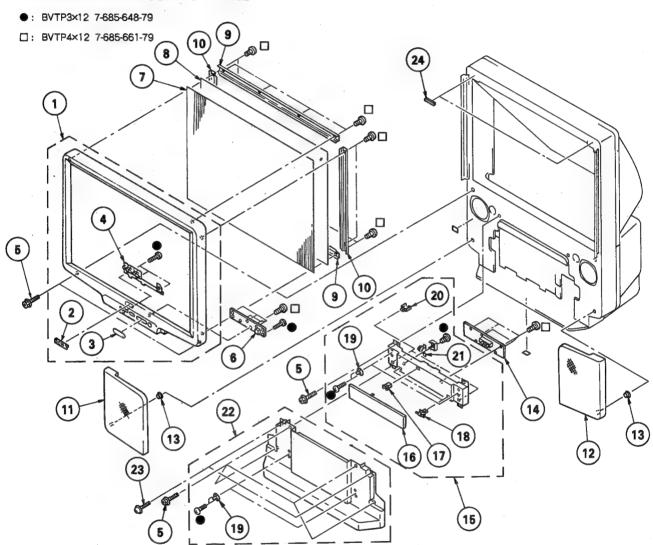
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark are critical for safety.

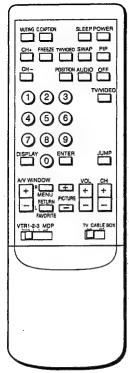
Replace only with part number

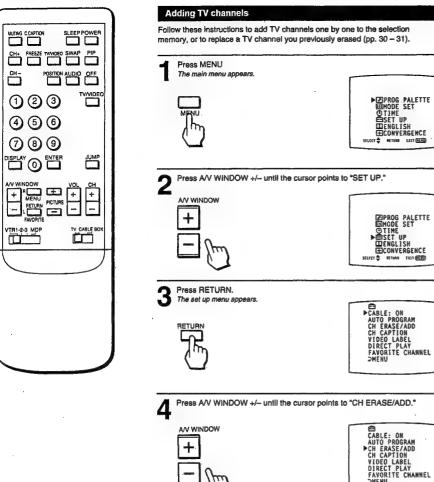
Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

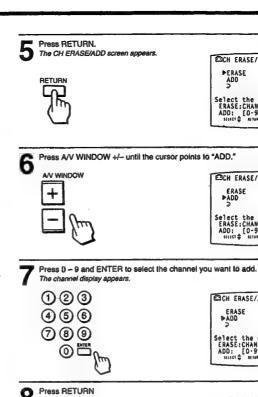
### 7-1.SCREEN FRAME AND CONTROL PANEL

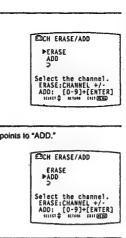


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1 2 3 4 5	X-4031-192-1 3-704-179-01 4-036-087-21 4-033-779-11 4-378-522-31	EMBLEM (NO.9), SONY COVER, INDICATOR BUTTON, CONTROL	2~4	13 14 15 16 17	4-838-438-00 *1-643-592-11 X-4030-354-4 4-033-794-11 4-374-714-01	LATCH H2 BOARD PANEL ASSY, CONTROL LID, FRONT CATCH, PUSH	16~21
6 7 8 9 10	4-034-053-01	PLATE (L), DIFFUSION PLATE (F), DIFFUSION		18 19 20 21 21 22	3-703-035-11 4-843-806-00 *4-314-320-00 3-721-204-01 X-4030-347-1	SHAFT, LID STRIKE HOLDER, WIRE DAMPER COVER ASSY, FRONT	19
11 12	X-4030-346-1 X-4030-348-1	GRILLE (L) ASSY, SPEAKER GRILLE (R) ASSY, SPEAKER	٠.	23 24	4-304-851-11 4-039-110-01	SCREW (4X25), (+) PWH TAPPING SPACER (CA)	









CH ERASE/ADD

Select the channel. ERASE:CHANNEL +/-ADD: [0.9]+[ENTER] SCHOOL STREET

ERASE

10

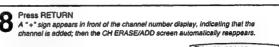
+ 10

To add another channel Repeat steps 7 - 8. To return to the previous menu Press AV WINDOW +/- until the cursor points to " ⊃ MENU." Then press RETURN. To return to the main menu Repeat the above, until you reach the

To return to the normal screen Press MENU.

main menu.

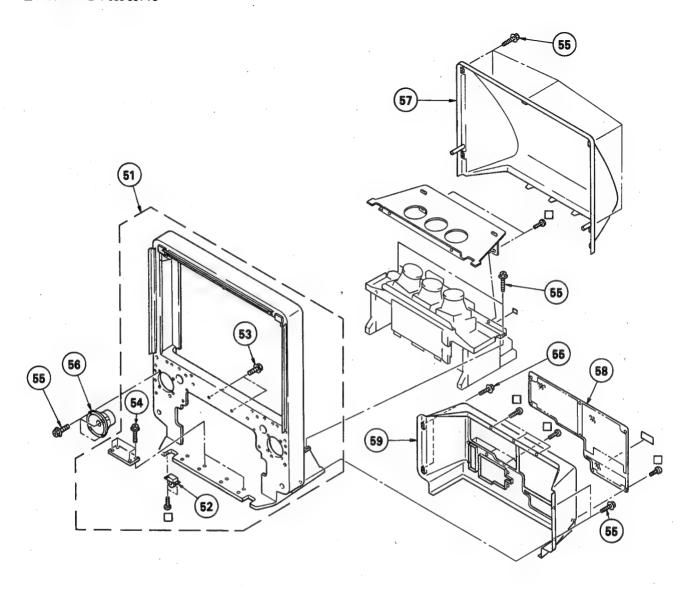
If you add a VHF or UHF channel, the same number cable TV channel is also added (and vice versa).





### 7-2.CABINET AND BACK COVER

☐: BVTP4×12 7-685-661-79



į	REF.NO	. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	51 52 53 54 55	4-040-755-01 4-378-522-01 4-378-522-21	CABINET ASSY CASTER (DIA. 30) SCREW, TAPPING, HEXAGON HEAD SCREW, TAPPING, HEXAGON HEAD SCREW, TAPPING, HEXAGON HEAD	52~54	56 57 58 59	4-036-136-01 4-036-527-01	SPEAKER (13CM) (COAXIAL) COVER, MIRROR PLATE, REAR COVER ASSY, BACK	

# SECTION 8 ELECTRICAL PARTS LIST

Α

NOTE:

The components identified by shading and mark are critical for safety.

Replace only with part number

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

### RESISTORS

- · All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS COILS 
• MF :  $\mu$ F, PF :  $\mu$ F 
• MMH :  $\mu$ H, UH :  $\mu$ H

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.

REF.NO	. PART NO.				REMARK	REF.NO.	PART NO.	DESCRIPTION	1		REMARK
	*A-1297-079-A 4-382-854-11	A BOARD, COMP ************************************	PLETE ***** ), P, SW (+)			C226 C227 C299 C502 C503	1-124-120-11 1-124-621-11 1-126-101-11 1-126-182-11 1-130-487-00	ELECT ELECT ELECT ELECT	220MF 3300MF 100MF 0.47MF	20% 20% 20% 20%	16V 6.3V 16V 50V
	< CO N	NECTOR>				C503	1-130-487-00	MYLAR FILM	0.022MF 0.01MF	5% 5%	50V 50V
A1 A2 A3 A4 A5	*A-1297-079-A  4-382-854-11	PLUG, CONNEC' PLUG, CONNEC' PLUG, CONNEC' PLUG, CONNEC' PLUG, CONNEC' PLUG, CONNEC'	TOR 11P TOR 9P TOR 4P TOR 5P TOR 8P		å	C507 C508 C509 C510 A	1-106-383-00 1-102-973-00 1-102-030-00 1-136-565-11	MYLAR CERAMIC CERAMIC FILM	0.047MF 100PF 330PF 0.015MF	5% 10% 3%	200V 50V 500V 1.4KV
A10 A11 A12	*1-564-511-41 *1-564-511-31 1-573-297-11	PLUG, CONNECT PLUG, CONNECT CONNECTOR, BO CONNECTOR, BO	TOR 8P TOR 8P DARD TO BOAR DARD TO BOAR	D 18P		C513 C514 C522 C523	1-136-153-00 1-124-477-11 1-123-024-21 1-106-383-00	ELECT ELECT MYLAR	0.01MF 47MF 33MF 0.047MF	20%	16V 160V 200V
A14 A15 A16 A17	*1-564-508-11 *1-564-508-11 *1-564-508-11	PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	TOR 10P TOR 5P TOR 5P TOR 5P	. TO		C528 C534 C535 C536 C537	1-124-662-11 1-124-011-00 1-124-011-00 1-124-662-11 1-124-662-11	ELECT BLECT BLECT BLECT BLECT	220MF 220MF 220MF 220MF 220MF	20% 20% 20% 20% 20%	50V 16V 16V 50V 50V
A18 A19 A20 A21 A22	*1-691-291-11 *1-691-291-11 *1-691-291-11 *1-508-786-00 1-573-297-11	PIN, CONNECT PIN, CONNECT PIN, CONNECT CONNECTOR, B	OR (PC BOARD OR (PC BOARD OR (SMM PITO OARD TO BOAR	7) 5P 1) 5P 11) 2P 11) 18P		C539 C542 C543 C544 C545	1-124-907-11 1-136-153-00 1-136-153-00 1-136-153-00 1-136-153-00	ELBCT FILM FILM FILM FILM	10MF 0.01MF 0.01MF 0.01MF 0.01MF	20% 5% 5% 5%	50V 50V 50V 50V 50V
A25 A27 A56	*1-564-506-11 *1-573-979-11 *1-564-508-11	PLUG, CONNEC CONNECTOR, B PLUG, CONNEC	TOR 3P OARD TO BOAF TOR 5P	1D 11P		C569 C1401 C1402 C1403 C1404	1-126-355-11 1-124-910-11 1-126-157-11 1-126-157-11 1-126-157-11	ELECT ELECT ELECT ELECT ELECT	33MF 47MF 10MF 10MF 10MF	20% 20% 20% 20% 20%	160V 50V 16V 16V 16V
C201 C202 C203 C204	<pre><caf 1-124-477-11="" 1-124-557-11<="" 1-124-903-11="" 1-124-910-11="" 1-130-495-00="" pre=""></caf></pre>	PACITOR> ELECT ELECT MYLAR ELECT	47MF 1MF 0.1MF 47MF	20% 20% 5% 20%	50V 50V 50V 16V 25V	C1405 C1406 C1407 C1408 C1409	1-124-910-11 1-126-101-11 1-126-057-11 1-136-165-00 1-136-165-00	ELECT BLECT BLECT FILM FILM	47MF 100MF 2200MF 0.1MF	20% 20% 20% 5%	50V 16V 50V 50V 50V
C205 C206 C207 C210 C212 C213	1-124-357-11 1-126-101-11 1-124-242-00 1-102-121-00 1-126-803-11 1-126-103-11	ELECT ELECT CERAMIC	100MF 33MF 0.0022MF 47MF 470MF	20% 20% 10%	16V 16V 50V 16V 16V	C1424 C1425 C1426	1-124-234-00 1-126-057-11 1-126-057-11 1-126-157-11 1-126-101-11	ELECT ELECT ELECT ELECT	22MF 2200MF 2200MF 10MF 100MF	20% 20% 20%	16V 50V 50V 16V 16V
C214	1-126-101-11 1-126-803-11 1-126-101-11 1-126-803-11 1-126-103-11	ELECT		20%	16V 50V 16V 25V	C1431	1-126-101-11 1-124-916-11 1-124-916-11 1-126-336-11 1-130-483-00	ELECT MYLAR	220MF 0.01MF	20% 5%	16V 50V 25V 25V 50V
C219 C220 C223 C224 C225	1-124-443-00 1-126-803-11 1-126-803-11 1-124-261-00 1-124-120-11		100MF 47MF 47MF 10MF 220MF	20% 20% 20% 20% 20% 20%	10V 25V 25V 50V 16V	C1603 C1607 C1608 C1609 C1610	1-136-153-00 1-124-907-11 1-136-153-00 1-136-153-00 1-124-916-11	BLECT FILM FILM	0.01MF 10MF 0.01MF 0.01MF 22MF	5% 20% 5% 20%	50V 50V 50V 50V 50V



Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
	<d10< td=""><td>DE&gt;</td><td></td><td></td><td>L502</td><td>1-459-313-00 1-410-645-31</td><td>COIL WITH CO</td><td>RE (HWC)</td><td></td><td></td><td></td></d10<>	DE>			L502	1-459-313-00 1-410-645-31	COIL WITH CO	RE (HWC)			
D203 D204	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119			L515			1000H			
D205 D206 D207	8-719-110-36 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119			Q201	8-729-119-78 8-729-119-78	NSISTOR> TRANSISTOR 2	SC2785-H	FE		
D208 D209 D211	8-719-911-19 8-719-911-19 8-719-110-36	DIODE 1SS119 DIODE 1SS119 DIODE RD13ES-R2			Q203 Q501 Q502	8-729-119-76 8-729-119-80 8-729-014-88	TRANSISTOR 2	SA1175-H SC2688-L	FE K		
D213 D214	8-719-110-78 8-719-911-19	DIODE RD33ES-B2 DIODE 1SS119			0504 0505	8-729-119-78 8-729-201-32	TRANSISTOR 2 TRANSISTOR 2	SC2785-H SA1013-0	FE		
D215 D216 D217 D219 D220	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	1		Q506 Q507 Q508	8-729-201-32 8-729-304-92 8-729-204-16 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1013-0 SB649A-C SA1301-0			
D221 D222	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119			0510 0511 0512	8-729-119-78 8-729-119-76 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-H SA1175-H SC2785-H	fe fe fe		•
D223 D501 D502	8-719-911-19 8-719-971-20 8-719-971-20	DIODE 1SS119 DIODE ERC38-06 DIODE ERC38-06			Q1401 Q1402	8-729-119-78 8-729-900-63	TRANSISTOR 2	SC2785-H TA124ES	FE		
D503 D504 D505	8-719-300-80 8-719-109-88 8-719-900-95	DIODE RU-1C DIODE RD5.6ES-B DIODE VO9G	1		01407 01408 01601 01602	8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-76	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-H SC2785-H	FE FE		
D506 D507	8-719-970-89	DIODE VOGG DIODE DD50R			Q1603 Q1604	8-729-119-76 8-729-119-76 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1175-H SA1175-H	IFE IFE		
D509 D510 D511 D512 D513	8-719-911-19 8-719-109-71 8-719-911-19 8-719-911-19 8-719-911-19	DIODE RD3.9ES-B DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	i		Q1604 Q1605 Q1606 Q1620	8-729-119-78 8-729-119-76	TRANSISTOR 2	SC2785-H	IFE		
D514	8-719-911-19	DIODE 155119					ISTOR>	. =0		4 / 400	
D1401 D1402	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119			R203 R204 R214 R215 R216	1-249-425-11 1-249-441-11 1-249-429-11 1-249-437-11 1-249-377-11	CARBON CARBON CARBON CARBON CARBON	4.7K 100K 10K 47K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F
D1405 D1406 D1407	8-719-110-88 8-719-911-19 8-719-110-88	DIODE RD39ES-B2 DIODE RD39ES-B2 DIODE ISS119 DIODE RD39ES-B2 DIODE 1SS119			R219 R221 R222 R223	1-249-426-11 1-249-409-11 1-249-436-11 1-249-434-11				1/4W 1/4W 1/4W 1/4W	
D1409	8-719-110-88	DIODE RD39ES-B2 DIODE 1SS119			R224 R225	1-249-409-11	CARBON	220 1K		1/4W 1/4W	
		DIGDE 188119			R229 R231 R232 R233	1-216-488-11 1-249-409-91 1-215-906-11 1-249-409-11	METAL OXIDE CARBON METAL OXIDE CARBON	18K 220 15 220	5% 5% 5%	3W 1/4W 3W 1/4W	F
IC204	8-759-171-05	IC SI-3090CA IC UPC7805H			R234 R235	1-249-409-11 1-249-409-11	CARBON CARBON	220 220	5% 5%	1/4W 1/4W	
I C206	8-759-144-82 8-759-231-58 8-749-920-58	1C UPC2405HF IC TA7812S IC SI-3090CA			R236 R237 R238	1-249-409-11 1-249-409-11 1-249-409-11	CARBON CARBON CARBON	220 220 220	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1/4W 1/4W	
IC1401	8-752-057-18 8-759-246-70 8-752-058-71				R239 R240 R241 R242	1-249-409-11 1-215-906-11 1-249-401-11 1-215-906-11	CARBON METAL OXIDE CARBON METAL OXIDE	220 15 47 15	5% 5% 5%	1/4W 3W 1/4W 3W	F
	<c01< td=""><td>L&gt;</td><td></td><td></td><td>R243 R244</td><td>1-217-294-00 1-207-676-00</td><td>WI REWOUND WI REWOUND</td><td>4.7 6.8</td><td>10% 10%</td><td>5₩ 5₩</td><td>F F</td></c01<>	L>			R243 R244	1-217-294-00 1-207-676-00	WI REWOUND WI REWOUND	4.7 6.8	10% 10%	5₩ 5₩	F F
L201 L205 L206 L212	1-410-312-11	INDUCTOR INDUCTOR INDUCTOR	470UH 100UH 39UH 0.22UH	i tarkamparaanno vallibus 1903-ya ka	R296 R501 R502 R503	1-249-417-11 1-247-895-00 1-249-377-11 1-249-377-11	CARBON CARBON CARBON CARBON	1K 470K 0.47 0.47	5% 5% 5% 5%	1/4W 1/4W 1/4W	F F
E L501 <b>∧</b>	1-460-196-11	COLL, HORIZONT			R504	1-249-417-11	CARBON	1 K	5%	1/4W	

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION				REMARK.	REF.NO.	PART NO.	DESCRIPTION			REMARK
R505 R506 R507 R508 R509	1-249-423-11 1-215-922-11 (1-249-429-11 1-216-373-11 1-216-478-11	CARBON METAL OXIDE CARBON METAL OXIDE METAL OXIDE	3.3K 6.8K 10K 2.2 390	5% 5% 5% 5% 5%	1/4W 3W 1/4W 2W 3W	1 1 1	R1520 R1601 R1602	1-215-410-00 1-249-429-11 1-249-423-11 1-249-417-11	CARBON CARBON	360 1 10K 5 3.3K 5 1K 5 3.3K 5 100 5	% 1/4W % 1/4W % 1/4W % 1/4W % 1/4W	
R511 R512 R513 R514 R515	1-249-407-11 1-249-421-11 1-249-417-11 1-216-441-00 1-249-432-11	CARBON CARBON CARBON METAL OXIDE CARBON	150 2.2K 1K 27K 18K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1W 1/4W	4	R1604 R1605 R1606 R1607	1-249-423-11 1-249-405-11 1-249-405-11 1-249-415-11 1-249-415-11	CARBON  CARBON  CARBON  CARBON  CARBON  CARBON	100 5 100 5 100 5 680 5 680 5		
R516 R517 R518 R519 R520	1-249-417-11 1-249-427-11 1-249-422-11 1-249-417-11 1-215-925-11	CARBON CARBON CARBON CARBON METAL OXIDE	1K 6.8K 2.7K 1K 22K	5% 5% 5% 5%	1/4W	ቴ ቴ	R1609	1-249-415-11 1-249-405-11 1-249-405-11 1-249-405-11 1-249-423-11	CARBON CARBON CARBON CARBON CARBON CARBON	100 5 100 5 100 5 3.3K 5	% 1/4W % 1/4W % 1/4W % 1/4W	
R521 R522 R523 R524 R525	1-215-925-11 1-249-421-11 1-249-434-11 1-249-434-11 1-215-922-11	METAL OXIDE CARBON CARBON CARBON METAL OXIDE	22K 2.2K 27K 27K 6.8K	5% 5% 5% 5%	3W 1/4W 1/4W 1/4W 3W	F		1-249-411-11 1-249-423-11 1-249-424-11 1-249-429-11	CARBON CARBON	330 5 3.3K 5 3.9K 5 10K 5 27K 5		
R526 R528 R529 R530 R531	1-249-417-11 1-216-447-00 1-216-447-00 1-249-431-11 1-249-431-11	CARBON METAL OXIDE METAL OXIDE CARBON CARBON	1K 27 27 15K 15K	5% 5% 5% 5%	1/4W 2W 2W 1/4W 1/4W	[c. [c.	R1631 R1656 R1657	1-249-433-11 1-249-397-11 1-249-397-11 1-249-397-11	CARBON CARBON CARBON		% 1/4W % 1/4W % 1/4W % 1/4W	
R532 R533 R534 R535 R536	1-249-385-11 1-249-405-11 1-249-405-11 1-249-405-11 1-207-687-00	CARBON CARBON CARBON CARBON WI REWOUND	2.2 100 100 100 150	5% 5% 5% 10%	1/4W 1/4W 1/4W 1/4W 5W	F	T501 Z T502 Z	<tra \$ 1-439-545-11 \$ 1-437-078-11</tra 	NSFORMER> TRANSFORMER, TRANSFORMER,	PERRITE HORIZONT	AL ORIVE	
R537 R550 R558 R559 R560	1-207-687-00 1-249-385-11 1-249-385-11 1-249-409-11 1-249-409-11	WI REWOUND CARBON CARBON CARBON CARBON	150 2.2 2.2 220 220	10% 5% 5% 5% 5%	5W 1/4W 1/4W 1/4W 1/4W		1	<tun 1-693-102-21</tun 	TUNER (BTF-X			
R563 R564 R565 R566 R567	1-249-429-11 1-249-429-11 1-249-427-11 1-249-427-11 1-249-427-11	CARBON CARBON CARBON CARBON CARBON	10K 10K 6.8K 6.8K 6.8K	5%	1/4W 1/4W 1/4W 1/4W 1/4W			*A-1195-066-A		MPLETE		
R568 R569 R570 R571 R572	1-249-427-11 1-249-426-11 1-249-441-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON CARBON CARBON	6.8K 5.6K 100K 10K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		! C3002	1-124-589-11 1-164-346-11 1-164-232-11 1-163-119-00 1-163-235-11	ELECT CERAMIC CHIP	0.01MF 120PF	20% 10% 5% 5%	16V 16V 50V 50V 50V
R574 R579 R1401 R1402 R1403	1-249-417-11 1-249-417-11 1-215-445-00 1-215-445-00 1-215-445-00	CARBON CARBON METAL METAL METAL	1 K 1 K 1 O K 1 O K 1 O K	5% 5% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		C3006 C3007 C3008 C3009 C3010	1-164-232-11 1-164-005-11 1-164-004-11 1-124-925-11 1-163-145-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 0.47MF 0.1MF 2.2MF	10% 10% 20%	50V 25V 25V 50V 50V
R1404 R1405 R1406 R1409 R1410	1-215-445-00 1-249-385-11 1-249-385-11 1-249-433-11 1-249-433-11	METAL CARBON CARBON CARBON CARBON	10K 2.2 2.2 22K 22K	1% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		C3011 C3012 C3013	1-163-018-00 1-164-336-11 1-164-222-11 1-164-004-11		0.0056MF 0.33MF 0.22MF 0.1MF		50V 25V 25V 25V 25V
R1411 R1427 R1428 R1431 R1433	1-249-437-11 1-215-865-11 1-215-865-11 1-249-405-11 1-249-425-11	CARBON METAL OXIDE METAL OXIDE CARBON CARBON	47K 220 220 100 4.7K	5% 5% 5% 5%	1/4W 1W 1W 1/4W 1/4W	F	C3016 C3017 C3018 C3019 C3020	1-163-107-00 1-130-495-00 1-163-115-00 1-164-232-11	CERAMIC CHIP MYLAR CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	39PF 0.1MF 82PF 0.01MF	5% 5% 5% 10%	50V 50V 50V 50V 50V
R1434 R1439 R1440	1-249-423-11 1-247-883-00 1-249-417-11	CARBON- CARBON CARBON	3.3K 150K 1K		1/4W 1/4W 1/4W		C3021		CERAMIC CHIP		5% 20%	50V 50V



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C3024 1-163-018-00 C3025 1-164-343-11 C3026 1-126-163-11 C3027 1-163-275-11	CERAMIC CHIP 0.0056MF CERAMIC CHIP 0.056MF BLECT 4.7MF CERAMIC CHIP 0.001MF BLECT 47MF	10% 10% 20% 5%	50V 25V 50V 50V	IC3004 IC3005	8-759-088-90 8-759-088-91 8-759-112-06 8-759-046-27 8-759-112-06	IC SDA9187X IC SDA9188X IC UPC78NO5H		
C3029 1-163-133-00 C3030 1-163-037-11 C3031 1-126-177-11 C3032 1-164-004-11	CERAMIC CHIP 470PF CERAMIC CHIP 0.022MF ELECT 100MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	5% 10% 20% 10%	50V 25V 6.3V		<c01< td=""><td>L&gt;</td><td></td><td></td></c01<>	L>		
C3033	CERAMIC CHIP 0.3MF CERAMIC CHIP 0.33MF CERAMIC CHIP 100PF CERAMIC CHIP 0.1MF BLECT 47MF FILM 0.0047MF	10% 5% 10%	25V 25V 50V 25V		1-410-476-11 1-408-424-00 1-408-424-00 1-410-470-11 1-410-472-41			
C3039 1-164-004-11 C3040 1-164-232-11 C3042 1-164-346-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 10.01MF CERAMIC CHIP 1MF	10% 10%	25V 50V 16V	L3006 L3007 L3008 L3009 L3010	1-412-788-41 1-410-472-41 1-410-472-41 1-410-472-41 1-410-466-41	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	10UH 15UH 15UH 15UH 4.7UH	
C3043	BLECT 0.47MF BLECT 1MF BLECT 1MF BLECT 1MF BLECT 1MF CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.0022MF	20% 20% 20% 20% 20%	16V , 50V	L3011 L3012 L3013 L3014 L3015	1-410-470-11 1-410-676-31 1-412-911-11 1-412-911-11 1-412-911-11	INDUCTOR INDUCTOR INDUCTOR, FER INDUCTOR, FER INDUCTOR, FER	10UH 150UH RITE BEAD RITE BEAD RITE BEAD	
C3048 1-164-161-11 C3051 1-164-161-11 C3052 1-126-177-11	CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.0022MF	10%	50V 50V 6.3V	L3100	1-412-799-41	INDUCTOR	82UH	
C3053 1-164-004-11 C3054 1-126-177-11 C3055 1-163-133-00 C3057 1-124-589-11	ELECT 100MF CERAMIC CHIP 0.1MF BLECT 100MF CERAMIC CHIP 470PF BLECT 47MF	10% 20% 5% 20%	25V 6.3V 50V 16V	Q3003 Q3004	<tra 8-729-216-22 8-729-422-27 8-729-422-27</tra 	NSISTOR> TRANSISTOR 2S TRANSISTOR 2S	5A1162-G 5D601A-Q	
C3058 1-163-009-11 C3059 1-164-222-11 C3060 1-124-589-11 C3064 1-163-123-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.22MF BLECT 47MF CERAMIC CHIP 180PF BLECT 47MF	10% 20% 5%	50V 25V 16V 50V	Q3007 Q3008 Q3009	8-729-216-22 8-729-422-27 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	SA1162-G SD601A-Q SA1162-G	
C3065 I-124-589-11 C3066 I-164-004-11 C3067 I-124-589-11 C3069 I-164-232-11	CERANIC CHIP 0.1MF ELECT 47MF CERANIC CHIP 0.01MF ELECT 100MF BLECT 47MF	10% 20% 10%	25V 16V 50V	Q3011 Q3012 Q3013	8-729-422-27 8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29	SA1162-G SD601A-Q SD601A-Q	
			6.3V 16V	Q3014 Q3100	8-729-422-27 8-729-216-22	TRANSISTOR 25	50601A-U 5A1162-G .	
C3076 I-164-004-11	ELECT 47MF ELECT 47MF CERAMIC CHIP 150PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.47MF	20% 5% 10%	16V 50V 25V 25V	10001	1-216-295-00 1-216-085-00	SISTOR> METAL GLAZE METAL GLAZE	0 5% 33K 5%	1/10W 1/10W
C3081 1-163-095-00 C3100 1-164-004-11 C3101 1-162-926-11	CERAMIC CHIP 12PF CERAMIC CHIP 0.1MF CERAMIC CHIP 82PF	5% 10% 5%	50 V 25 V 50 V	R3002 R3003 R3004	1-216-089-00 1-216-067-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 33K 5% 47K 5% 5.6K 5% 56K 5%	1/10W 1/10W 1/10W
<con< td=""><td>NECTOR&gt;</td><td></td><td>20.</td><td>R3007</td><td>1-216-689-11 1-216-097-00 1-216-079-00 1-216-073-00 1-216-041-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>39K 5% 100K 5% 18K 5% 10K 5% 470 5%</td><td>1/10W 1/10W 1/10W 1/10W 1/10W</td></con<>	NECTOR>		20.	R3007	1-216-689-11 1-216-097-00 1-216-079-00 1-216-073-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39K 5% 100K 5% 18K 5% 10K 5% 470 5%	1/10W 1/10W 1/10W 1/10W 1/10W
<pre>D3003 8-719-158-15 D3004 8-719-404-46</pre>	DIODE RD5.6S-B DIODE MAIIO DIODE MAIIO			R3011 R3012 R3013	1-216-049-00 1-216-073-00 1-216-053-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	1K 5% 10K 5% 1.5K 5% 4.7K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
D3009 8-719-404-46 <ic> IC3001 8-759-046-25</ic>				R3017 R3018 R3019	1-216-049-00 1-216-083-00 1-216-097-00 1-216-077-00 1-216-099-00	METAL GLAZE METAL GLAZE	1K 5% 27K 5% 100K 5% 15K 5% 120K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
1C3002 8-759-009-46 1C3003 8-759-513-48	IC MC14528BF			1	1-216-075-00		12K 5%	1/10W

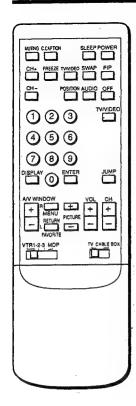
P1 M	P1	M
------	----	---

REF.NO. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION	la con-	REMARK
R3023 1-216-065-00 R3025 1-216-015-00 R3026 1-216-041-00 R3027 1-216-061-00 R3028 1-216-027-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 39 470 3.3K 120	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		1117004	1-241-630-11 1-238-019-11	IABLE RESISTOR>  RES, ADJ, CARBON 10K RES, ADJ, CARBON 47K RES, ADJ, CARBON 10K		
R3030 1-216-073-00 R3031 1-216-047-00 R3032 1-216-041-00 R3033 1-216-295-00 R3034 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 820 470 0 470	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		 	<cry< td=""><td>STAL&gt; OSCILLATOR, CRYSTAL</td><td></td><td></td></cry<>	STAL> OSCILLATOR, CRYSTAL		
R3035 1-216-045-00 R3036 1-216-045-00 R3037 1-216-083-00 R3038 1-216-049-00 R3039 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W				M BOARD, COMPLETE	******	*****
R3040 1-216-065-00 R3041 1-216-073-00	METAL GLAZE METAL GLAZE	4.7K 10K	5% 5%	1/10W 1/10W				ACITOR>		
R3042 1-216-057-00 R3043 1-216-099-00 R3044 1-216-089-00		4.7K 10K 2.2K 120K 47K		1/10W 1/10W 1/10W		C004	1-136-161-00 1-126-301-11	CERAMIC CHIP 220PF FILM 0.047MF ELECT 1MF	20% 5% 5% 20%	50 V 50 V 50 V 50 V 50 V
R3045 1-216-295-00 R3050 1-216-033-00 R3052 1-216-033-00	METAL GLAZE METAL GLAZE	0 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W	•	C014	1-163-125-00 1-124-910-11	CERAMIC CHIP 220PF ELECT 47MF	20%	50V .
R3053 1-216-037-00 R3055 1-216-063-00	METAL GLAZE METAL GLAZE	330 3.9K	5% 5%	1/10W 1/10W			1-124-589-11 1-163-141-00 1-164-695-11	ELECT 47MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.0022MF	20% 5% 5%	16V 50V 50V
R3056 1-216-059-00 R3057 1-216-081-00 R3058 1-216-049-00	METAL CLATE	2.7K 22K	57	1/10W 1/10W 1/10W		C020 C021	1-163-241-11	CERAMIC CHIP 39PF CERAMIC CHIP 33PF	5% 5%	50V 50V
R3059 1-216-079-00 R3060 1-216-065-00	METAL GLAZE METAL GLAZE	1K 18K 4.7K	5% 5%	1/10W 1/10W		C029 C030	1-163-115-00 1-163-115-00	CERAMIC CHIP 82PF CERAMIC CHIP 82PF	5% 5%	50 V 50 V
R3061 1-216-049-00 R3062 1-216-049-00	METAL GLAZE	1 K 1 K	5% 5% 5%	1/10W 1/10W		C034 C035	1-163-125-00 1-163-125-00	CERAMIC CHIP 220PF CERAMIC CHIP 220PF	5% 5%	50V 50V
R3063 1-216-025-00 R3064 1-216-295-00 R3065 1-216-073-00	METAL GLAZE	100 0 10K	5% 5% 5%	1/10W 1/10W 1/10W		C036 C041 C042	1-163-125-00 1-163-117-00 1-163-117-00	CERAMIC CHIP 100PF CERAMIC CHIP 100PF	5% 5% 5%	50V 50V 50V
R3066 1-216-053-00 R3067 1-216-295-00	METAL GLAZE METAL GLAZE	1.5K		1/10W 1/10W		C045	1-163-125-00 1-124-261-00	CERAMIC CHIP 220PF BLECT 10MF	5% 20%	50 <b>V</b> 50 <b>V</b>
R3069 1-216-689-11 R3071 1-216-049-00 R3073 1-216-049-00	METAL GLAZE METAL GLAZE	39K 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W		C048 C049 C055 C064	1-124-261-00 1-124-261-00 1-163-809-11 1-163-121-00	ELECT 10MF ELECT 10MF CERAMIC CHIP 0.047MF CERAMIC CHIP 150PF	20% 20% 10% 5%	50V 50V 25V 50V
R3074 1-216-295-00 R3075 1-216-049-00 R3076 1-216-043-00	METAL GLAZE	0 1K 560	5% 5% 5%	1/10W 1/10W 1/10W		C065	1-124-257-00	ELECT 2.2MF	5% 20%	- 50V
R3077 1-216-037-00 R3078 1-216-044-00	METAL GLAZE	330 620	5% 5%	1/10W 1/10W			010>			
R3079 1-216-040-00 R3082 1-216-029-00	METAL GLAZE	<b>43</b> 0 150	5% 5%	1/10W 1/10W		D001 D002 D009	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110		
R3084 1-216-049-00 R3085 1-216-119-00 R3086 1-216-065-00	METAL GLAZE	1K 820K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W		D010 D011	8-713-300-57 8-719-404-46	DIODE 1T33 DIODE MA110		
R3087 1-216-081-00 R3088 1-216-089-00	METAL GLAZE	22K 47K	5% 5%	1/10W 1/10W		D012 D014 D015	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110		
R3089 1-216-033-00 R3090 1-216-089-00 R3091 1-216-053-00	METAL GLAZE METAL GLAZE	220 47K 1.5K	5% 5% 5%	1/10W 1/10W 1/10W		2013	<ic:< td=""><td></td><td></td><td></td></ic:<>			
R3092 1-216-053-00	METAL GLAZE	1.5K	5% 5%	1/10W		I CO01	8-759-169-06	IC TMC73C247-10		
R3098 1-216-296-00 R3099 1-216-296-00 R3100 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W 1/8W		I C002		IC MN1280-S		
R3101 1-216-051-00 R3102 1-216-047-00	METAL GLAZE	1.2K 820	5% 5%	1/10W 1/10W		L001	<00 1-408-409-00	INDUCTOR 10UH		
R3103 1-216-057-00 R3104 1-216-049-00	METAL GLAZE METAL GLAZE	2.2K 1K	5% 5% 5%	1/10W 1/10W		L002	1-410-476-11	INDUCTOR 33UH		



 REF. NO	. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
M001 M39	<pre><con *1-564-521-11="" *1-564-523-31<="" 1-573-965-21="" pre=""></con></pre>	NECTOR> PIN, CONNECTO PLUG, CONNECTO	R (PC BOA OR 6P	ARD) 50P		R063 R064 R065 R066	1-216-033-00 1-216-053-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 1.5K 220 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
M43	+1-304-323-31	NSISTOR>	OIL OI			R067	1-216-033-00 1-216-033-00 1-216-049-00	METAL GLAZE	220 220 1K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W	
0001 0009		TRANSISTOR 2S	A1162-G			R070 R071	1-216-033-00	METAL GLAZE METAL GLAZE	220 220	5% 5%	1/10W 1/10W	
Q010 Q011 Q012	8-729-422-27 8-729-422-27 8-729-422-27	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	D601A-Q D601A-Q D601A-Q			R072 R073 R074	1-216-033-00 1-216-057-00 1-216-033-00 1-216-033-00	MRTAL GLAZE	220 2.2K 220 220	55555555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W	
Q013 Q014	8-729-216-22 8-729-422-27	TRANSISTOR 2S	A1162-G D601A-Q			R076	1-216-089-00	METAL GLAZE			1/10W 1/10W	
Doo.		ISTOR>				R079	1-216-057-00 1-216-033-00 1-216-025-00 1-216-061-00	METAL GLAZE METAL GLAZE	2.2K 220 100 3.3K 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R001 R002 R003	1-216-045-00 1-216-097-00 1-216-121-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1M 57	% 1/10W % 1/10W % 1/10W		R082	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE			1/10W 1/10W 1/10W	
R004 R005	1-216-073-00	METAL GLAZE METAL GLAZE				R083 R084 R085	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	100K 220 220	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W	
R006 R007 R008	1-216-065-00 1-216-027-00 1-216-041-00	METAL GLAZE	4.7K 57 120 57 470 57 120 57 220 57	% 1/10W % 1/10W % 1/10W		R086 R087 R088	1-216-033-00 1-216-033-00	METAL GLAZE	220 220 220		1/10W 1/10W	
R009 R011	1-216-027-00 1-216-033-00	METAL GLAZE				R089	1-216-033-00 1-216-089-00 1-216-033-00 1-216-065-00	METAL GLAZE METAL GLAZE	47K 220 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R012 R013 R014	1-216-033-00 1-216-067-00 1-216-057-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 55 5.6K 55 2.2K 55 47K 55 5.6K 55	% 1/10W % 1/10W % 1/10W		R091 R092 R093	1-216-077-00 1-216-065-00				1/10W 1/10W	
R015 R016 R017	1-216-067-00	METAL GLAZE				R094 R095 R096	1-216-033-00 1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 4.7K 220 10K 4.7K	5% 5%	1/10W 1/10W 1/10W	
R018 R019 R033	1-216-067-00 1-216-065-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 55 4.7K 55 10K 55 10K 55 220 55	% 1/10W % 1/10W % 1/10W		R097 R098	1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	4.7K 4.7K		1/10W 1/10W	
R034 R035	1-216-033-00	METAL GLAZE				1 R099	1-216-089-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	47K 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R036 R037 R038 R039	1-216-033-00 1-216-033-00 1-216-073-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE	220 5 220 5 10K 5 220 5 10K 5	% 1/10W % 1/10W % 1/10W % 1/10W		! R103	1-216-089-00 1-216-033-00 1-216-033-00	METAL GLAZE	47K 220 220	5% 5%	1/10W 1/10W 1/10W	
R040 R041	1-216-089-00 1-216-057-00	METAL GLAZE	47K 5	% 1/10W			<cry< td=""><td>(STAL&gt;</td><td></td><td></td><td></td><td></td></cry<>	(STAL>				
R042 R043 R044	1-216-065-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 5 4.7K 5 220 5 220 5	% 1/10W % 1/10W % 1/10W		X001		VIBRATOR, CR				
R045 R046	1-216-025-00 1-216-065-00	METAL GLAZE METAL GLAZE				*****	************* *A-1346-137-A	E2 BOARD, CO	MPLETE	*****	******	*****
R047 R048 R049	1-216-065-00 1-216-033-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 5 4.7K 5 4.7K 5 220 5 4.7K 5	% 1/10W % 1/10W % 1/10W				*********	*****			
R050 R051	1-216-295-00 1-216-033-00	METAL GLAZE METAL GLAZE	0 5 220 5	% 1/10W % 1/10W		C2302	1-163-009-11	PACITOR> CERAMIC CHIP	0.001	(F	10%	50V
R052 R053 R054	1-216-065-00 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5	% 1/10W % 1/10W % 1/10W		C2303 C2310 C2314 C2315	1-164-232-11 1-163-105-00 1-164-232-11 1-126-157-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 33PF	ì	10% 5% 10% 20%	50V 50V 50V 16V
R055 R056	1-216-073-00 1-216-065-00	METAL GLAZE	10K 5 4.7K 5 4.7K 5	% 1/10W % 1/10W	)	C2316	1-126-157-11	ELECT	10MF		20%	16V 16V
R057 R058 R059	1-216-065-00 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5	7 1/106 7 1/106 7 1/106	)	C2317 C2318 C2320	1-126-157-11 1-164-232-11 1-124-589-11 1-163-017-00	ELECT	47MF		10% 20% 10%	50V 16V 50V
R060	1-216-065-00	METAL GLAZE	4.7K 5	1/100	)	1 64341	1-102-011-00	CERAMIC CHIP	0.004	en.	10%	JU 1

R	REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			R	EMARK
	C2323	1-124-234-00 1-124-234-00	ELECT ELECT	22NF 22MF 22NF 0.01NF 47NF	20% 20%	16V 16V	Q2305 Q2306	8-729-903-10 8-729-403-27	TRANSISTOR FMV	V1 1401			
	C2325	1-164-232-11 1-124-589-11		-		16V 50V 16V	Q2308	8-729-403-27	TRANSISTOR XN4 TRANSISTOR XN4 TRANSISTOR FMV	1401			
	C2328	1-164-505-11 1-164-232-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	2.2MF 0.01MF 0.01MF	10% 10%	16V 50V 50V	Q2310 Q2311	8-729-403-27 8-729-903-10	TRANSISTOR XN4 TRANSISTOR FM	1401 V1			
	C2331 C2332	1-124-234-00	ELECT	ZZMF	20%	50¥ 16¥	Q2313 Q2314	8-729-903-10 8-729-403-27	TRANSISTOR XN4 TRANSISTOR FM TRANSISTOR XN4	W1 4401			
	C2334 C2335	1-124-234-00 1-164-232-11 1-164-232-11 1-126-163-11	CERAMIC CHIP CERAMIC CHIP ELECT	22MF 0.01MF 0.01MF 4.7MF 0.01MF	20% 10% 10%	16V 50V 50V 16V	Q2317	8-729-216-22 8-729-216-22	TRANSISTOR FM TRANSISTOR 25/ TRANSISTOR 25/	A1162-G			
	C2337	1-164-232-11	CERAMIC CHIP	0.1MF		50V 25V	Q2318 Q2319 Q2320 Q2321	8-729-216-22 8-729-422-27	TRANSISTOR 25/ TRANSISTOR 25/ TRANSISTOR 25/	A1162-G D601A-Q			
	C2340 C2341 C2345	1-216-133-00 1-135-217-21 1-164-505-11	METAL GLAZE TANTAL. CHIP CERAMIC CHIP	3.3M 5% 15MF 2.2MF	1/10W 20%	6.3V 16V	Q2322 Q2324 Q2326	8-729-422-27	TRANSISTOR 2SI	D601A-Q A1162-G			
	C2347	1-164-232-11 1-163-367-11 1-164-505-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	39PF	10% 5%	50V 50V	Q2326 Q2327 Q2328 Q2329	8-729-422-27 8-729-422-27 8-729-925-79 8-729-925-79	TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR IMI TRANSISTOR IMI	D601A-Q X3			
	C2350 C2351	1-164-232-11 1-164-505-11 1-164-505-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 2.2MF 2.2MF	10%	50V 16V 16V	02330	8-729-903-10 8-729-925-79	TRANSISTOR FM TRANSISTOR IM	W1			
	C2353 C2354	1-164-232-11 1-164-232-11		0.01MF	10% 10%	50V 50V	Q2337 Q2339	8-729-925-79 8-729-422-27 8-729-422-27	TRANSISTOR IM	X3 D601A-Q			
	C2357 C2360	1-126-301-11 1-163-109-00	ELECT CERAMIC CHIP	IMF 47PF	20% 5%	50V 50V	Q2341	8-729-422-27	TRANSISTOR 2S	D601A-Q			
		<dio< td=""><td>DE&gt;</td><td></td><td></td><td></td><td>İ</td><td><res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<></td></dio<>	DE>				İ	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
	D2307 D2308	8-719-404-46 8-719-946-98 8-719-946-98 8-719-404-46 8-719-404-46	DIODE MA110 DIODE FMN1 DIODE FMN1 DIODE MA110 DIODE MA110				R2302 R2303 R2304 R2305 R2306	1-216-049-00 1-216-049-00 1-216-049-00 1-216-033-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5 1K 5 1K 5 220 5 680 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/10W /10W /10W /10W /10W	
	D2313 D2314 D2317		DIODE 1733 DIODE MA110				R2307 R2308 R2309 R2310 R2311	1-216-045-00 1-216-045-00 1-216-041-00 1-216-055-00	METAL GLAZE METAL GLAZE	470 5	5% 1 5% 1	/10W /10W /10W /10W /10W	
	DO 000		NECTOR>	on (na nain	D) 50D		R2312	1-216-043-00	METAL GLAZE METAL GLAZE	560 5	5% 1 5% 1	/10W /10W	
	E2-25 E2-26	1-573-965-21 *1-564-521-31 *1-564-522-11 *1-564-518-11	PLUG, CONNEC PLUG, CONNEC	TOR 6P TOR 7P	טנ (ע) טטר		R2313 R2314 R2315 R2317	1-216-055-00 1-216-061-00 1-216-081-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K F	5% 1 5% 1	/10W /10W /10W /10W	
		<ic></ic>					R2318 R2319		METAL GLAZE METAL GLAZE	1.8K	5% 1 5% 1	/10W /10W	
	102303	8-759-066-52 8-759-925-75	IC PCA8510T/	/012-T			R2320 R2321 R2322	1-216-061-00 1-216-063-00	METAL GLAZE METAL GLAZE	3.3K 5	5% 1 5% 1	/10W /10W /10W	
	102306	8-752-037-15 8-759-011-65 8-752-058-68	IC MC74HC409	53F			R2323 R2324 R2325	1-216-049-00 1-216-049-00		5.6K 1K 1K	5 <b>%</b> 1	/10W /10W !/10W	
		<c01< td=""><td>L&gt;</td><td></td><td></td><td></td><td>R2326 R2327</td><td>1-216-061-00</td><td>METAL GLAZE METAL GLAZE</td><td>3.3K 5</td><td></td><td>/10W  /10W</td><td></td></c01<>	L>				R2326 R2327	1-216-061-00	METAL GLAZE METAL GLAZE	3.3K 5		/10W  /10W	
	L2304	1-408-414-00	INDUCTOR	27UH			R2328 R2329	1-216-025-00	METAL GLAZE	100 100	52 1	/10W /10W	
			NSISTOR>					1-216-061-00 1-216-063-00 1-216-025-00	METAL GLAZE	3.3K ! 3.9K ! 100	5% 1	/10W 1/10W 1/10W	
	02303	8-729-903-10 8-729-403-27 8-729-925-79	TRANSISTOR	KN4401			R2333	1-216-067-00 1-216-295-00	METAL GLAZE		5% I	1/10W 1/10W	



Make sure that the TV/CABLE BOX selector on the Remote Commander is set to TV, in order to control the projection TV with the Remote Commander. Press POWER to turn on the projection TV. TIMER/STAND BY indicator blinks until the picture appears. Set the cable connection on or off (pp. 26 - 27) to select the type of channel you want to watch, VHF/UHF or cable TV.

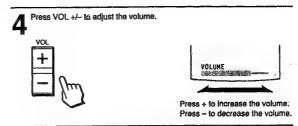
To watch VHF To watch cable TV channels or UHF channels

Select a channel in one of the following two ways: To scan the preset channels in numerical sequence, press CH +/-.



To select a channel directly, press 0 - 9 and then ENTER. For example, to select channel 10, press 1, 0 and ENTER.





If VIDEO 1, VIDEO 2 or VIDEO 3 appears on the screen Press TV/VIDEO until a TV channel number appears. To select channels more easily Set FAVORITE CHANNEL (pp. 64 - 65). To turn off the projection TV Press POWER.

# **E2**

	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R2335 R2336		METAL GLAZE	0	5% 5%	1/10W 1/10W		į	1-216-001-00	METAL GLAZE	10		1/10W	
R2337 R2338 R2340	1-216-033-00 1-216-081-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 22K 1K	5% 5% 5%	1/10W 1/10W 1/10W		R3312 R3313	1-216-081-00 1-216-049-00 1-216-083-00 1-216-689-11 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 1K 27K 39K	5% 5%	1/10W 1/10W 1/10W 1/10W	
R2341 R2342 R2343	1-216-041-00 1-216-049-00 1-216-049-00	METAL GLAZE	470 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W		1			47K		1/10W 1/10W	
R2344 R2345	1-216-033-00 1-216-077-00	METAL GLAZE METAL GLAZE			1/10W 1/10W		i K332U	1-216-071-00 1-216-095-00 1-216-095-00 1-216-017-00	METAL GLAZE	82K 47	5% 5% 5%	1/10W 1/10W 1/10W	
R2346 R2347 R2348	1-216-049-00 1-216-083-00 1-216-655-11	METAL CHIP		0.50%		,	R3321	1-216-069-00	METAL GLAZE	6.8K		1/10W	
R2349 R2350 R2351	1-216-025-00 1-216-097-00 1-216-033-00	3 A PO 40 A 3	100K	5% 5%	1/10W 1/10W		R3325 R3328	1-216-101-00 1-216-049-00 1-216-025-00 1-216-001-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	150K 1K 100 10 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R2352 R2353 R2354	1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 100K 3,3K	5% 5% 5%	1/10W 1/10W 1/10W 1/8W		R3331 R3332	1-216-025-00 1-216-001-00 1-216-033-00 1-216-081-00 1-216-657-11 1-216-661-11 1-216-683-11 1-216-685-11 1-216-081-00 1-216-081-00 1-216-049-00 1-216-677-11	METAL GLAZE METAL GLAZE	220 22K	5% 5%	1/10W 1/10W	
R2355 R2356	1-216-178-00 1-216-677-11	METAL GLAZE METAL CHIP	150 12K	5% 0.50%	1/8W 1/10W		R3333 R3334 R3335	1-216-657-11 1-216-661-11 1-216-025-00	METAL CHIP METAL CHIP METAL GLAZE	1.8K	0.50% 0.50%	1/10W	
R2357 R2359 R2360	1-216-670-11 1-216-053-00 1-216-053-00	METAL CHIP METAL GLAZE METAL GLAZE	6.2K 1.5K 1.5K	0.50% 5% 5%	1/10W 1/10W 1/10W		R3336 R3337	1-216-683-11 1-216-685-11	METAL CHIP	22K 27K	0.50% 0.50%	1/10W	
R2361 R2362	1-216-053-00 1-216-053-00 1-216-041-00	METAL GLAZE	1.5K	5% 5%	1/10W 1/10W 1/10W		117741	1-216-081-00 1-216-049-00 1-216-677-11	METAL GLAZE METAL CHIP	22K 1K 12K	5% 5% 0.50%	1/10W 1/10W 1/10W	
R2363 R2364 R2365 R2366	1-216-053-00 1-216-053-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 470 1.5K 1.5K 22K	5% 5% 5%	1/10W 1/10W 1/10W		R3342 R3343 R3344	1-216-670-11 1-216-097-00 1-216-097-00	METAL CHIP METAL GLAZE METAL GLAZE	6.2K 100K 100K	0.50% 5% 5%	1/10W 1/10W	
R2367 R2368	1-216-043-00 1-216-081-00	METAL GLAZE METAL GLAZE			1/10W 1/10W		R3348	1-216-687-11 1-216-681-11	METAL CHIP	33K 18K	0.50% 0.50%	1/10W 1/10W	
R2371 R2374 R2375	1-216-033-00 1-216-067-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	560 22K 220 5.6K 22K	5% 5% 5%	1/10W 1/10W 1/10W		R3350	1-216-073-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	10K 4.7K 4.7K	5%	1/10W 1/10W 1/10W 1/10W	
R2376 R2377 R2378	1-216-081-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W		R3353	1-216-073-00 1-216-059-00 1-216-059-00	METAL GLAZE	10K 2.7K		1/10W	
R2379 R2380	1-216-043-00 1-216-043-00	METAL GLAZE METAL GLAZE			1/10W 1/10W		R3356 R3357 R3358	1-216-655-11 1-216-654-11 1-216-659-11	METAL CHIP METAL CHIP METAL CHIP	1.3K 2.2K	0.50% 0.50% 0.50%	1/10W 1/10W 1/10W	
R2384	1-216-043-00 1-216-073-00 1-216-081-00	METAL GLAZE METAL GLAZE	560 10K 22K	5% 5% 5%	1/10W 1/10W 1/10W	*	R3359	1-216-653-11 1-216-077-00	METAL CHIP	1.2K 15K	0.50% 5%	1/10W	
R2385 R2386	1-216-075-00 1-216-049-00	METAL GLAZE	12K 1K	5% 5%	1/10W 1/10W		R3361 R3362 R3364	1-216-049-00 1-216-097-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R2387 R2388 R2389	1-216-025-00 1-216-017-00 1-216-206-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 47 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W		R3365 R3367 R3368	1-216-097-00 1-216-077-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 15K 27K	5%	1/10W 1/10W 1/10W	
R2390 R2392 R2393	1-216-206-00	METAL GLAZE	560 2.2K 47		1/10W 1/8W		R3369 R3370 R3371	1-216-001-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE	10 10 10	5% 5% 5%	1/10W 1/10W 1/10W	
R2394 R2395 R2396	1-216-049-00 1-216-001-00 1-216-206-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 10 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/8W		R3373 R3374	1-216-673-11 1-216-059-00	METAL CHIP METAL GLAZE	8.2K 2.7K	0.50% 5%	1/10W 1/10W	
R2397 R2399	1-216-043-00 1-216-001-00	METAL GLAZE	560 10	5% 5%	1/10W 1/10W		R3375 R3376 R3377		METAL CHIP	2K 680 680	0.50% 0.50%	1/10W 1/10W 1/10W	
R3301 R3302 R3303	1-216-049-00 1-216-001-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 10 6.8K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R3379	1-216-659-11 1-216-655-11	METAL CHIP	2.2K 1.5K 2.7K	0.50%	1/10W 1/10W 1/10W	
R3304 R3306	1-216-091-00 1-216-089-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	56K 47K 33K	5% 5%	1/10W 1/10W 1/10W		R3380 R3381 R3382	1-216-025-00	METAL GLAZE	100 0	5% 5%	1/10W 1/10W 1/10W	
R3307 R3308 R3309	1-216-043-00 1-216-043-00 1-216-049-00	METAL GLAZE METAL GLAZE	560 1K	5% 5%	1/10W 1/10W 1/10W		R3392 R3401	1-216-089-00 1-216-057-00	METAL GLAZE METAL GLAZE	47K 2.2K	5% 5%	1/10W 1/10W	

E2 E1

		-									
REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK	
R7313	1-216-049-00 1-216-047-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE STAL>	1K 5% 820 5% 2.2K 5%	1/10W 1/10W 1/10W		C361 C362 C363 C364 C365	1-126-301-11 1-164-232-11 1-164-232-11 1-126-301-11 1-164-343-11	ELECT 1MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 1MF CERAMIC CHIP 0.056MF	20% 10% 10% 20% 10%	50V 50V 50V 50V 25V	
X2301	1-577-071-11	VIBRATOR, CER	RAMIC			C366 C367	1-124-257-00 1-126-157-11	ELECT 2.2MF ELECT 10MF	20% 20%	50V 16V	
	*********			******	*******	C368 C369	1-124-234-00 1-163-001-11	ELECT 22MF CERANIC CHIP 220PF	20% 10%	16V 50V	
	*A-1346-138-A	EI BUARD, COI				C370 C371	1-164-232-11 1-124-126-00	CERAMIC CHIP 0.01MF  ELECT 47MF	10% 20%	50V 16V	
C201		ACITOR>	n 0012MG	10%	50V	C372 C373 C378 C379	1-124-589-11 1-164-232-11 1-163-117-00 1-164-232-11	ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 100PF CERAMIC CHIP 0.01MF	20% 10% 5% 10%	16V 50V 50V 50V	
C304	1-126-157-11 1-164-232-11 1-163-251-11 1-163-117-00		10MF 0.01MF 100PF	20% 10% 5% 5%	16V 50V 50V 50V	C380 C381 C382	1-163-137-00 1-163-101-00 1-164-004-11	CERAMIC CHIP 680PF CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF	5% 5% 10%	50V 50V	
C309	1-164-505-11	CERAMIC CHIP	2.2MF		16V	C383 C384	1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 12PF	10% 5%	25V 25V 50V	
C310 C314 C315	1-163-109-00 1-124-915-11 1-164-505-11	CERAMIC CHIP ELECT CERAMIC CHIP	10MF	5% 20%	50V 16V 16V		<010	DE>			
C319	1-126-157-11	ELECT	10MF	20%	16V	D301	8-719-404-46	DIODE MAILO			
C320 C321 C322 C323	1-124-465-00 1-163-125-00 1-163-003-11 1-163-099-00	CERAMIC CHIP CERAMIC CHIP	330PF 18PF	20% 5% 10% 5%	50V 50V 50V 50V	D302 D303 D304 D305	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110			
C324 C325	1-124-234-00	ELECT FILM CHIP	22MF 0.1MF	20% 5%	16V	D306 D307	8-719-158-15 8-719-404-46	DIODE RD5.6S-B DIODE MA110			
C326 C327 C328 C329	1-104-563-11 1-104-563-11 1-126-157-11 1-126-157-11	FILM CHIP FILM CHIP ELECT ELECT	0.1MF 0.1MF 10MF 10MF	5% 5% 5% 20% 20%	16V 16V 16V 16V	D310 D312 D313	8-719-158-15 8-719-404-46 8-719-404-46	DIODE RD5.6S-B DIODE MA110 DIODE MA110			
C330 C331	1-126-157-11 1-126-301-11 1-124-584-00	ELECT BLECT ELECT	10MF 1MF 100MF	20% 20% 20%	16V 50V 10V	D314 D315 D316 D317	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110			
C333 C334	1-163-037-11 1-137-491-11	CERAMIC CHIP		10% 5%	25V 25V	D318	8-719-404-46	DIODE MA110			
C335 C336 C337	1-136-169-00 1-126-301-11 1-126-301-11	FILM ELECT ELECT	0.22MF 1MF 1MF	5% 20% 20%	50V 50V 50V	D319 D320 D321	8-719-404-46 8-719-404-46 8-719-400-94	DIODE MAIIO DIODE MAIIO DIODE MA3I30			
C338 C339	1-124-584-00 1-124-791-11	ELECT	100MF IMF	20% 20%	10V 50V		<del< td=""><td>AY LINE&gt;</td><td></td><td></td><td></td></del<>	AY LINE>			
C340 C341	1-163-009-11 1-126-157-11	CERAMIC CHIP	0.001MF 10MF	10% 20%	50V 16V	DL302	1-415-817-11	DELAY LINE			
C342 C343	1-124-465-00 1-124-589-11	ELECT ELECT	0.47MF 47MF	20% 20%	50V 16V	 	<c0n< td=""><td>INECTOR&gt;</td><td></td><td></td><td></td></c0n<>	INECTOR>			
C344 C345	1-164-232-11	CERAMIC CHIP	0.01MF	10% 20%	50V 50V	E1-24	*1-564-523-11	PIN, CONNECTOR (PC BOAI PLUG, CONNECTOR 8P	RD) 50P		
C346 C347 C348	1-164-232-11 1-136-169-00 1-163-117-00	CERAMIC CHIP FILM CERAMIC CHIP	0.22MF 100PF	10% 5% 5%	50V 50V 50V	E1-25 E1-26	*1-564-521-31 *1-564-522-11	PLUG, CONNECTOR 6P PLUG, CONNECTOR 7P			
C349 C350	1-126-301-11	ELECT	IMF IMF	20% 20%	50V 50V		<10	<b>&gt;</b>			
C351 C352 C353 C354	1-163-002-11 1-164-489-11 1-126-163-11 1-136-169-00			10% 10% 20% 5%	50V 16V 50V 50V	1 IC302	8-752-058-68 8-752-057-68 8-759-106-02	IC CXA1464AS			
C355 C356	1-124-465-00	ELECT	0.47MF	20% 10%	50V 50V		<c01< td=""><td>IL&gt;</td><td></td><td></td><td></td></c01<>	IL>			
C357 C358 C360	1-163-017-00 1-163-117-00 1-124-767-00 1-137-491-11	CERAMIC CHIP CERAMIC CHIP ELECT FILM CHIP		5% 20% 5%	50V 50V 50V 25V	L301 L307 L308	1-410-064-11 1-410-944-31 1-410-946-31	INDUCTOR 2.7MMH INDUCTOR CHIP 15UH INDUCTOR CHIP 22UH			



	PART NO.	DESCRIPTION					PART NO.	DESCRIPTION				REMARK
	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R343 R344 R345 R346</td><td>1-216-077-00 1-216-081-00 1-216-292-11 1-216-081-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>15K 22K 8.2M 22K</td><td>5% 5% 5% 5%</td><td>1/10W 1/10W 1/8W 1/10W</td><td></td></tra<>	NSISTOR>				R343 R344 R345 R346	1-216-077-00 1-216-081-00 1-216-292-11 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 22K 8.2M 22K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W	
Q301 Q302 Q303 Q304 Q305	8-729-925-79 8-729-925-79 8-729-422-27 8-729-907-46 8-729-925-79	TRANSISTOR IMX TRANSISTOR IMX TRANSISTOR 2SD TRANSISTOR IMX TRANSISTOR IMX	3 601A-Q 1 3			R347 R348 R349 R350 R351		METAL GLAZE METAL GLAZE METAL GLAZE	22K 1K 0 47K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q306 Q307 Q309 Q310 Q311	8-729-422-27 8-729-903-10 8-729-422-27 8-729-422-27 8-729-403-27	TRANSISTOR 2SD TRANSISTOR FMW TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR XN4	601A-Q 11 601A-Q 601A-Q 401			R352 R353 R354 R355 R356	1-216-011-00 1-216-001-00 1-216-049-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE	27 10 1K 10 10	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q312 Q314 Q315 Q316 Q317	8-729-422-27 8-729-403-27 8-729-422-27 8-729-422-27 8-729-216-22	TRANSISTOR IMX TRANSISTOR IMX TRANSISTOR 2SD TRANSISTOR IMX TRANSISTOR IMX TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD	601A-Q 401 601A-Q 601A-Q 11162-G			R357 R358 R359 R360	1-216-049-00 1-216-049-00 1-216-049-00 1-216-119-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q321 Q322 Q323 Q324 Q325	8-729-925-79 8-729-216-22 8-729-422-27 8-729-216-22 8-729-216-22	TRANSISTOR 1MX TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 1MX TRANSISTOR 1MX TRANSISTOR 1MX	(3 11162-G 11162-G 11162-G 11162-G		2	R362 R363 R364 R365	1-216-079-00 1-216-295-00 1-216-045-00 1-216-017-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	18K 0 680 47	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q326 Q327 Q328 Q329 Q330	8-729-422-27 8-729-422-27 8-729-422-27 8-729-925-79 8-729-925-79	TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR. 2SD TRANSISTOR IMX TRANSISTOR IMX	0601A-Q 0601A-Q 0601A-Q (3			R367 R368 R369 R370 R371	1-216-045-00 1-216-001-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE	680 10 220 220 220	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q333 Q334 Q335 Q340 Q342	8-729-925-79 8-729-422-27 8-729-907-46 8-729-422-27 8-729-925-79	TRANSISTOR IMX TRANSISTOR IMX TRANSISTOR 2SD TRANSISTOR 1MZ TRANSISTOR 1MZ TRANSISTOR IMX TRANSISTOR 2SA	(3 )601A-Q (1 )601A-Q (3			R372 R373 R374	1-216-031-00 1-216-671-11 1-216-037-00	METAL GLAZE METAL CHIP METAL GLAZE	180 6.8K 330	5% 0.50% 5%		
	<res< td=""><td>ISTOR&gt;</td><td></td><td>% 1/10b</td><td></td><td>R377 R378 R379 R380</td><td>1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00</td><td>METAL GLAZE METAL GLAZE</td><td>220 220 220 220 220 220</td><td>5% 5%</td><td>1/10W 1/10W 1/10W 1/10W 1/10W</td><td></td></res<>	ISTOR>		% 1/10b		R377 R378 R379 R380	1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 220 220 220	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R301 R302 R303 R304 R305	1-216-025-00 1-216-057-00 1-216-079-00 1-216-081-00 1-216-069-00			% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W		R382 R383 R384 R385	1-216-033-00 1-216-653-11 1-216-041-00 1-216-081-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	220 1.2K 470 22K	5% 0.50% 5%	1/10W 1/10W 1/10W	
R306 R307 R308 R309 R310	1-216-081-00 1-216-089-00 1-216-037-00 1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 5 47K 5 330 5 10K 5 4.7K 5	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W		R386 R387 R388 R389 R390	1-216-687-11 1-216-033-00 1-216-033-00 1-216-081-00 1-216-033-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 22K 220 22K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R312 R313 R314 R316 R317	1-216-043-00 1-216-035-00 1-216-061-00 1-216-035-00 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 5 270 5 3.3K 5 270 5 1M 5	% 1/104 % 1/104 % 1/104 % 1/104 % 1/104	)   	R391 R393 R394 R395 R396	1-216-049-00 1-216-051-00 1-216-109-00 1-216-071-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 330K 8.2K 220K	5% % % % % % % % % % % % % % % % % % %	1/10W 1/10W 1/10W 1/10W 1/10W	
R320 R325 R326 R331 R332	1-216-039-00 1-216-033-00 1-216-057-00 1-216-017-00 1-216-657-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	390 5 220 5 2.2K 5 47 5 1.8K 0	% 1/106% % 1/106% % 1/106% % 1/106% 1/106%	) ) )	R397 R398 R399 R1301 R1302	1-216-081-00 1-216-081-00 1-216-077-00 1-216-049-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 15K 1K 680	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R333 R336 R338 R339 R340	1-216-051-00 1-216-047-00 1-216-043-00 1-216-047-00 1-216-651-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	1.2K 5 820 5 560 5 820 5	% 1/10% % 1/10% % 1/10% % 1/10% 0.50% 1/10%	) )	R1303 R1304 R1305 R1306	1-216-085-00 1-216-081-00 1-216-025-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 22K 100 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R341	1-216-043-00	METAL GLAZE	560 5	1/100	1	R1307 R1308	1-216-073-00 1-216-065-00		10K 4.7K	5% 5%	1/10W 1/10W	

	and the second second
E1	<b>Y2</b>

	DEMINA
	REMARK
K 5% 1/10W K 5% 1/10W K 5% 1/10W 5% 1/10W 5% 1/10W	t 
5% 1/10W 5% 1/10W M 5% 1/10W K 5% 1/10W K 5% 1/10W 5% 1/10W 5% 1/10W	
5% 1/10W	<b>.</b>
AL	
******	*****
E *	
9 00W	169
20% 20% 20% 20% YMF 20%	16V 50V 50V 50V 50V
IF 20% IF 20% 20% 20% 20%	50V 25V 50V 50V 50V
20% 20% 33MF 5% 20% 22MF 5%	16V 50V 100V 50V 50V
20% 20% 20% 20% 20%	50V 16V 50V 50V 50V
7 20% 20% 20% 7MF 5% 01MF 10%	16V 16V 50V 50V 50V
022MF 5% F 20% F 20% D22MF 5% MF 10%	50V 50V 50V 50V 16V
20% 3MF 5% BMF 5% 4F 20% 4F 20%	16V 50V 50V 16V 16V
MF 20% 20% 20% 15MF 5%	16V 50V 50V 50V
	5% 1/10% 5% 1/10%  AL  ************************  E  **  20% 20% 20% 20% 20% 20% 20% 20% 20% 20

# **Y2**

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
C466 C467 C468	1-130-485-00 1-136-169-00 1-136-169-00	MYLAR FILM FILM	0.015MF 0.22MF 0.22MF 10MF 10MF	5% 5% 5%	5	50V	R475 R476	1-216-055-00 1-216-669-11	METAL GLAZE METAL CHIP	5.6K	0.50%	1/10W	
C469 C470	1-126-157-11 1-126-157-11	ELECT ELECT	10MF 10MF	20) 20)	X 1 X 1	6V 6V	R477 R478 R479	1-216-675-11 1-216-089-00 1-216-669-11	METAL GLAZE METAL CHIP	47K 5.6K	0.50%	1/10W 1/10W	
C471 C472 C473	1-124-589-11 1-164-232-11 1-164-232-11	ELECT CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	47MF 0.01MF 0.01MF	200 100 100	% 1 % 5	6V 50V	R480 R481	1-216-675-11 1-216-089-00	METAL CHIP METAL GLAZE	10K 47K	0.50% 5%	1/10W 1/10W	
C474 C475 C476	1-124-234-00	CERAMIC CHIP	22MF 0.01MF 22MF	207 107 201	% 5 % 5	16V 50V 16V	R482 R483 R485 R486	1-216-089-00 1-216-089-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	47K 47K 10K 10K	5% 5%	1/10W 1/10W 1/10W 1/10W	
C477 C478 C479 C480	1-164-232-11 1-124-478-11 1-126-163-11	ELECT CERAMIC CHIP ELECT ELECT ELECT	0.01MF 100MF 4.7MF	10 20 20 20	2 5 2 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	50V 25V 50V 50V	R488 R494 R495	1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE	100 100 100		1/10W 1/10W 1/10W	
C481 C482	1-124-768-11 1-126-163-11	ELECT ELECT	4.7MF 4.7MF	20° 20°	% 5 % 5	50V	R496 R497 R498	1-216-025-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 220 100	5% 5%	1/10W 1/10W 1/10W 1/10W	
C483 C484 C485	1-163-113-00 1-163-113-00 1-163-038-00	CERAMIC CHIP	68PF 68PF 0.1MF	5%	5	50V 50V 25V	R499 R500 R501	1-216-025-00 1-216-081-00 1-216-669-11	METAL GLAZE	100 22K 5.6K	5% 5% 0.50%	1/10W 1/10W	
C487 C488	1-164-232-11 1-164-232-11		0.01MF 0.01MF	10 10	% 5	50V -	R502 R503	1-216-033-00 1-216-663-11	METAL GLAZE	220 3.3K	5% 0.50%	1/10W	
	<dio< td=""><td></td><td></td><td></td><td></td><td></td><td>R504 R507 R509</td><td>1-216-675-11 1-216-295-00 1-216-065-00</td><td>METAL CHIP METAL GLAZE METAL GLAZE</td><td>10K 0 4.7K 3.3K 4.7K</td><td>0.50% 5% 5%</td><td>1/10W 1/10W</td><td></td></dio<>						R504 R507 R509	1-216-675-11 1-216-295-00 1-216-065-00	METAL CHIP METAL GLAZE METAL GLAZE	10K 0 4.7K 3.3K 4.7K	0.50% 5% 5%	1/10W 1/10W	
D405 D406 D407 D408	8-719-107-13 8-719-107-13	DIODE RD18M-B DIODE RD18M-B DIODE RD18M-B DIODE RD5.1M-	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				R510 R512 R513	1-216-061-00 1-216-065-00 1-216-667-11	METAL GLAZE METAL CHIP		5% 5% 0.50%	1/10W 1/10W	
D409 D410	8-719-981-50 8-719-981-50	DIODE RB-100A					R515 R517 R518	1-216-295-00 1-216-025-00 1-216-089-00	METAL GLAZE METAL GLAZE	0 100 47K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
D413 .D414 D415	8-719-158-19 8-719-158-55	DIODE RD6.2S- DIODE RD15S-B DIODE RD15S-B	В				R519 R521	1-216-295-00 1-216-061-00	METAL GLAZE	0	5%	1/10W 1/10W	
	<1C>		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				R522 R523 R524 R525	1-216-033-00 1-216-033-00 1-216-065-00 1-216-067-00	METAL GLAZE METAL GLAZE	3.3K 220 220 4.7K 5.6K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
I C403 I C404 I C406 I C407	8-752-037-24	IC 24CO4AI/P IC CXA1264AS					R526 R527 R528	1-216-049-00 1-218-754-11 1-216-691-11	METAL CHIP	1K 120K 47K	0.50%	1/10W 1/10W 1/10W	
1 C408	8-759-245-75 8-752-057-18						R529 R531	1-216-097-00 1-216-097-00	METAL GLAZE	100K		1/10W	
0404	8-729-216-22	NSISTOR> TRANSISTOR 2S	A1162-G				R532 R533 R535	1-216-097-00 1-216-097-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 100K 1K	5%	1/10W 1/10W 1/10W	
Q405 Q409 Q410	8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	D601A-Q				R536 R537 R538	1-216-065-00 1-216-067-00 1-218-754-11	METAL GLAZE METAL GLAZE METAL CHIP	4.7K 5.6K 120K	5% 5% 0.50%	1/10W 1/10W	
		ISTOR>					R539 R542 R543	1-216-691-11 1-216-025-00 1-216-025-00	METAL CHIP METAL GLAZE METAL GLAZE	47K 100 100	0.50% 5% 5%	1/10W 1/10W 1/10W	
R447 R453 R464	1-216-033-00 1-216-033-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 220 5% 22K 5%		/10W /10W /10W		R546 R547	1-216-682-11 1-216-681-11	METAL CHIP	20K 18K	0.50%		
R465 R466	1-216-081-00 1-216-025-00	METAL GLAZE	22K 5% 22K 5% 100 5%		/10W /10W		1 1 1 1	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td></con<>	NECTOR>				
R467 R468 R469 R470	1-216-033-00 1-216-033-00 1-216-055-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 57 220 57 1.8K 57 220 57 220 57		/10W /10W /10W /10W		!		PIN, CONNECTO				
R471	1-216-033-00	METAL GLAZE			/10W		******         	*********	******	*****	**************************************		
R472 R473 R474	1-216-686-11 1-216-295-00 1-216-295-00	METAL CHIP METAL GLAZE METAL GLAZE	30K 0. 0 5% 0 5%	.50% 1. % I. % 1.	/10W /10W /10W		1 1 1 1 1						



						•				
REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1394-444-A	DESCRIPTION   X2 BOARD, COMPLETE  **********************************		•	C2563 C2564 C2565	1-163-257-11 1-126-301-11 1-126-163-11	CERAMIC CHIP ELECT ELECT	180PF 1MF 4.7MF	5% 20% 20%	50V 50V 50V
C2503 C2504	1-163-001-11 1-126-163-11	CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.0082MF CERAMIC CHIP 220PF BLECT 4.7MF CERAMIC CHIP 0.0082MF	10% 10% 10% 20%	50V 50V 50V 50V 50V	C2569 C2570	1-163-257-11 1-124-234-00	CERAMIC CHIP BLECT	180PF 22MF	20% 20% 5% 5% 20%	50V 50V 50V 50V 16V
C2506 C2507 C2508 C2509	1-163-020-00 1-163-017-00 1-163-020-00 1-163-020-00	CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.0033MF	10% 10% 10% 10% 10%	50V 50V 50V 50V 25V	C2571 C2572 C2573 C2574 C2575	1-126-301-11 1-126-163-11 1-124-234-00 1-126-301-11 1-126-301-11	ELECT ELECT ELECT ELECT ELECT	1MF 4.7MF 22MF 1MF 1MF	20% 20% 20% 20% 20%	50V 50V 16V 50V 50V
C2511 C2512 C2513 C2514		CERAMIC CHIP O.IMF CERAMIC CHIP O.IMF CERAMIC CHIP O.IMF CERAMIC CHIP O.IMF CERAMIC CHIP O.IMF		25V 25V 25V 25V 25V	C2580	1-126-301-11 1-126-163-11 1-126-163-11 1-126-103-11 1-124-478-11	ELECT	100MF	20% 20% 20% 20% 20%	50V 50V 50V 16V 25V
C2516 C2517 C2518 C2519 C2520	1-164-232-11		10% 20% 20% 20% 20%	50V 16V 50V 50V 50V	C2584 C2585	1-163-109-00 1-124-477-11 1-126-163-11 1-163-109-00 1-126-163-11	CERAMIC CHIP BLBCT	47PF 4.7MF	5% 20%	50V 25V 50V 50V 50V
C2521 C2522 C2523 C2524 C2525	1-163-809-11 1-124-252-00 1-126-163-11 1-164-004-11	CERANIC CHIP 0.047MF ELECT 0.33MF	10% 20% 20% 10% 20%	25V 50V 50V 25V 50V	C2587 C2588 C2589 C2590	1-163-009-11 1-126-163-11 1-126-163-11 1-126-163-11 1-126-163-11	ELECT BLECT ELECT BLECT	4.7MF 4.7MF 4.7MF 4.7MF	10% 20% 20% 20% 20%	50 V 50 V 50 V 50 V 50 V
C2526 C2527 C2528 C2529 C2530	1-124-465-00	CBRAMIC CHIP 0.1MF BLECT 10MF BLECT 0.47MF CERAMIC CHIP 0.033MF CBRAMIC CHIP 0.0033MF	10% 20% 20% 10% 10%	25V 16V 50V 25V 50V	D2501	1-124-478-11 <dio 8-719-104-34</dio 	DE>		20%	25V
C2531 C2532 C2533 C2534 C2535	1-126-301-11 1-124-261-00	DI DOD 1MD	20% 20% 20% 5% 10%	50V 50V 50V 50V 25V	D2503	8-719-106-88 8-719-106-88 8-719-106-88	DIODE RD15M-	B1		
C2536 C2537 C2538 C2539 C2540	1-104-232-11	CERAMIC CHIP 0.1MF BLECT 4.7MF BLECT 4.7MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF	10% 20% 20% 10% 10%	25V 50V 50V 50V 25V	I C2504	1 8-759-031-31 2 8-752-050-75 3 8-759-604-70 4 8-759-031-31 5 8-759-604-70	IC MC33174M			
C2541 C2542 C2543 C2544 C2545	1-124-478-11 1-124-252-00 1-164-161-11	CERAMIC CHIP 820PF BLECT 100MF BLECT 0.33MF CERAMIC CHIP 0.0022MF BLECT 1MF	5% 20% 20% 10% 20%	50 V 25 V 50 V 50 V 50 V	1 C2507	5 8-759-106-22 7 8-759-038-68 3 8-759-038-68	IC MC33172ML IC MC33172ML			
C2546 C2547 C2548 C2549 C2550	1-126-163-11 1-163-809-11	ELECT 4.7MF ELECT 4.7MF CERAMIC CHIP 0.047MF ELECT 4.7MF ELECT 4.7MF	20% 20% 10% 20% 20%	50V 25V 25V 50V 25V	J2501	<jac *1-573-966-11 <tra< td=""><td></td><td>OR (PC BOAR</td><td>D) 36P</td><td></td></tra<></jac 		OR (PC BOAR	D) 36P	
C2554	1-126-163-11 1-126-301-11 1-124-234-00	ELECT 1MF ELECT 4.7MF ELECT 1MF ELECT 22MF CERAMIC CHIP 0.1MF	20% 20% 20% 20% 10%	50V 50V 50V 16V 25V			ISTOR>			
C2557 C2558	1-126-301-11 1-164-004-11		20% 20% 20% 10% 10%	50V 16V 50V 25V 50V	R2502 R2503 R2504	1-216-079-00 1-216-097-00 1-216-091-00 1-216-109-00 1-216-109-00	METAL GLAZE METAL GLAZE METAL GLAZE	18K 5% 100K 5% 56K 5% 330K 5% 330K 5%	1/10 1/10 1/10 1/10 1/10	) (1)   (1)   (2)
C2561 C2562	1-126-301-11 1-163-263-11	ELECT 1MF CERAMIC CHIP 330PF	20% 5%	50V 50V						

## KP-41EXR96 RM-Y112A



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
P2506	1-216-101-00	METAL GLAZE	150K	59	1/10W		P2572	1-216-049-00	METAL GLAZE	1K 5%	1/10W	AD 40 00 4. AT 00
R2506 R2507 R2508 R2509 R2510	1-216-091-00 1-216-079-00 1-216-130-11 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	56K 18K 2.4M 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R2573 R2574	1-216-082-00 1-216-085-00 1-216-089-00 1-216-049-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	24K 5% 33K 5% 47K 5%	1/10W 1/10W 1/10W 1/10W	
R2512 R2513	1-216-085-00 1-216-103-00 1-216-085-00 1-216-103-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 180K 33K 180K 10K	5% 5% 5%	1/10W 1/10W 1/10W		R2578 R2579 R2580	1-216-081-00 1-216-049-00	METAL GLAZE METAL GLAZE	22K 5% 1K 5% 22K 5% 22K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2516 R2517 R2518 R2519 R2520	1-216-065-00 1-216-133-00 1-216-072-00 1-216-133-00 1-216-133-00				1/10W 1/10W 1/10W 1/10W 1/10W		R2582 R2583 R2584	1-216-083-00 1-216-083-00 1-216-081-00 1-216-073-00 1-216-085-00	METAL GLAZE	27K 5% 27K 5% 22K 5% 10K 5% 33K 5% 33K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2521 R2522 R2523 R2524 R2526	1-216-133-00 1-216-061-00 1-216-077-00 1-216-129-00 1-216-133-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3M 3.3K 15K 2.2M 3.3M	5%	1/10W		R2590	1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE	33K 5% 33K 5% 22K 5% 18K 5% 10K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2527 R2528 R2529 R2530 R2531	1-216-133-00 1-216-081-00 1-216-081-00 1-216-133-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3M 22K 22K 3.3M 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	7	R2593 R2594 R2595	1-216-073-00 1-216-079-00 1-216-073-00	METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	10K 5%  18K 5%  10K 5%  47K 5%  1K 5%  1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2532 R2533 R2534 R2535 R2536	1-216-133-00 1-216-089-00 1-216-073-00 1-216-073-00 1-216-129-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3M 47K 10K 10K 2.2M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2597 R2598 R2599 R2600	1-216-049-00 1-216-089-00 1-216-073-00 1-216-049-00 1-216-089-00	METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	1R 5% 47K 5% 10K 5% 1K 5% 1K 5% 1K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2537 R2539 R2540 R2541 R2542	1-216-077-00 1-216-061-00 1-216-075-00 1-216-069-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 3.3K 12K 6.8K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2602 R2604 R2605 R2606	1-216-073-00 1-216-089-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 47K 5% 1K 5% 1K 5% 1.5M 5%	1/10W 1/10W 1/10W 1/10W	
R2543 R2544 R2545 R2546 R2547			22K 10K 910 3.3M 3.3M		1/10W 1/10W 1/10W 1/10W 1/10W		R2611	1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00	METAL GLAZE	1.5M 5% 1.5M 5% 1.5M 5% 1.5M 5% 1.5M 5% 1.5M 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2548 R2549 R2550 R2551 R2552	I-216-073-00 I-216-065-00 I-216-088-00 I-216-088-00 I-216-049-00	METAL GLAZE METAL GLAZE	10K 4.7K 43K 43K 1K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2617 R2618	1-216-125-00 1-216-125-00 1-216-125-00 1-216-061-00 1-216-049-00	METAL GLAZE METAL GLAZE	1.5M 5% 1.5M 5% 3.3K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2553 R2554 R2555 R2556 R2557	1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	16K 24K 47K 1K 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		*****	************ *A-1316-149-A	G BOARD, COM	PLETE	*****	*****
R2558 R2559 R2560 R2561 R2562	1-216-091-00 1-216-103-00 1-216-097-00	METAL GLAZE METAL GLAZE	43K 56K 180K 100K 47K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		10 m m m m m m m m m m m m m m m m m m m	4-382-854-11	CLIP, FUSE PLATE, INSUL SCREW (M3X10 PACITOR>	ATING ), P, SW (+)		
R2563 R2564 R2565	1-216-088-00 1-216-088-00 1-216-103-00 1-216-073-00	METAL GLAZE METAL GLAZE	43K 43K 180K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C601 C602 C603 C605 C606	1-161-830-00 1-130-317-00 1-124-634-11 1-164-143-11 1-124-563-11	FILM ELECT CERAMIC	4700PF 0.068MF 1MF 0.001MF 2200MF	10% 5% 20% 10% 20%	500V 100V 250V 1KV 25V
R2569 R2570	1-216-049-00 1-216-097-00	METAL GLAZE METAL GLAZE	1 K 100 K 56 K 16 K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C607 C608 C609 C612	1-124-563-11 1-128-484-11 1-137-141-11 1-124-962-11	ELECT FILM	2200MF 100MF 0.082MF 2200MF	20% 20% 3% 20%	25V 200V 600V 25V

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION			RENARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C618	1-126-326-51 1-124-798-11 1-124-557-11 1-164-143-11 1-136-853-11	FILM	U.56MF	20% 20% 20% 10% 5%	200V 160V 25V 1KV 200V	D632	8-719-911-19 8-719-511-40 8-719-505-60 8-719-911-19 8-719-109-85	DIODE SIVB40 DIODE S5VB60 DIODE ISS119 DIODE RD5.1ES-		
C619 C620 C621 C622 C623	1-164-735-11 1-136-721-21 1-164-143-11 1-136-853-11 1-137-087-11	FILM CERAMIC	1500PF 1.5MF 0.001MF 0.56MF 0.068MF	10% 10% 5% 3%	400V 1KV 200V 0	D638 D640 A	8-719-911-19 8-719-510-09 8-719-160-81	DIODE 188119 DIODE DIOSCOM		
C624 C625 C626 C628 C629	1-126-771-11 1-126-183-11 1-126-373-11 1-161-830-00 1-124-607-11	ELECT ELECT	100MF 1000MF 470MF 4700PF 2200MF	20% 20% 20% 10% 20%	160V 16V 10V 500V 50V	E601 <i>4</i>		FUSE, GLASS TI	BE 6.3A/125V	
C637 <u>A</u>	1-136-311-51	ELECT MYLAR ELECT FILM	personne material na material (1971)	20% 20% 5% 20% 20%	50V 50V 50V 16V 125V	FB604 FB606 FB607	1-410-397-21 1-410-396-41 1-410-397-21 1-410-397-21	FERRITE BEAD : FERRITE BEAD : FERRITE BEAD	INDUCTOR 0.45UH INDUCTOR 1.1UH	
. C639 <u>∧</u> C640 <u>∧</u> C641	1-161-743-12 1-125-692-11 1-136-311-51 1-126-101-11 1-161-743-12	ELECT (BLOCK) FILM ELECT	0.0047MF 820MF 0.47ME 100MF 0.0047MB	20% 20% 20%	400V * 200V 125V 16V 400V	FB622 FB630	1-410-397-21 1-410-397-21 1-410-396-41 1-410-396-41	FERRITE BEAD FERRITE BEAD	INDUCTOR 1.1UH INDUCTOR 1.1UH INDUCTOR 0.45UH INDUCTOR 0.45UH	•
C646	1-126-104-11 1-124-907-11	ELECT	470MF	20% 20%	35V 50V		<con< td=""><td>NECTOR&gt;</td><td></td><td></td></con<>	NECTOR>		
C648 A E649 A	1-164-486-51 1-125-692-11 1-164-486-51 1-161-743-12 1-102-125-00	ELECT (BLOCK) CERANIC  CERANIC		20% 20% 20%	400V 200V 400V 50V	G2 G3	*1-508-786-00 *1-564-512-11 *1-564-507-11 *1-564-511-11 *1-564-508-11	PLUG, CONNECT	OR 4P OR 8P	
C661 C662 C663 C664	1-102-125-00 1-124-910-11	CERAMIC ELECT BLECT	0.0047MF 47MF 6800MF	10% 20% 20% 20%	50V 35V 16V	G7 G8 G9 G10	*1-564-507-11 *1-580-843-11	PLUG, CONNECT PIN, CONNECTO PIN, CONNECTO PIN. CONNECTO	OR 4P R (POWER) R (5MM PITCH) 3P R (5MM PITCH) 2P	
C670	1-102-074-00	CERAMIC	0.001MF	10%	50 <b>V</b>	G11 G12	*1-564-511-31 *1-564-505-11	PLUG, CONNECT PLUG, CONNECT		
	<dic< td=""><td></td><td></td><td></td><td></td><td></td><td>&lt;10</td><td></td><td></td><td></td></dic<>						<10			
D602 D603 D604 D605 D607	8-719-988-31	DIODE D5KC40 DIODE D1OSC6 DIODE D1OSC6 DIODE S3V10S	DH 5m 5mr				<b>A</b> 8-749-921-89 8-759-231-58	TE SETIEN		
D608 D609	8-719-109-85 8-719-109-84	DIODE RD5.1E DIODE RD5.1E					<c01< td=""><td>L&gt;</td><td></td><td></td></c01<>	L>		
D610 D611 D613	8-719-979-58 8-719-979-58 8-719-303-57	DIODE EGPION DIODE EGPION DIODE RUZAM	) ·			L602 L604 L605 L607	1-459-862-11 1-408-404-00 1-412-526-11 1-408-404-00 1-412-546-41	INDUCTOR	OUH 3.9UH 12UH 3.9UH 56OUH	
D614 D615 D616 D617 D618	8-719-979-58 8-719-975-76 8-719-025-81 8-719-110-02 8-719-911-19	DIODE RD7.5	SB SS-B1			L611 L612 L613	1-412-540-41 1-412-540-31 1-412-522-41	INDUCTOR	180UH 5.6UH	
D619 D620 /	8-719-975-76 <u>k</u> 8-719-988-31	DIODE SB140 DIODE DIOSCO	allicus					ANSISTOR>		
D621 D622 D623	8-719-908-03 8-719-908-03 8-719-110-63	DIODE GPO8D DIODE GPO8D DIODE RD24ES	S-B3		en music resolution de l'establishe	Q603 Q604 Q607 Q608	8-729-119-80 8-729-119-78 8-729-326-11	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	5C2688-LK 5C2785-HFB 5C2611	
D624 D626 D628 D629	8-719-908-03 8-719-110-49	DIODE RD5.61 DIODE GPO8D DIODE RD18E DIODE 1SS119	S-B2			Q609 Q610 Q611	8-729-019-58	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SÁ1208T-TP	

### KP-41EXR96 RM-Y112A

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque. A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

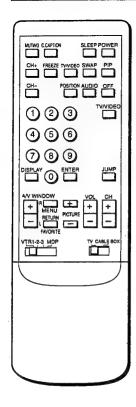
REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
Q612 Q613 Q614 Q615 Q616	8-729-386-12 8-729-209-15 8-729-011-15 8-729-019-58 8-729-208-39	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	D2012 C4582N A1208T	P -TP:			R666 R667 A R668 A R669 R675	1-202-888-91 1-21 <b>5</b> -90 <b>4</b> -91	CARBON SOLID METAL OXIDE CARBON CARBON	0.47 5% 2.2M 20 100K 5% 0.47 5% 0.47 5%	1/2W 1/2W 1/4W	F - 1
Q618 Q620 Q621 Q623 Q629	8-729-119-78 8-729-119-78	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2785-1 C2785-1 A1175-1	HFE HFE			R687 R689 R691 R694 R697	1-249-417-11 1-247-742-11 1-249-421-11 1-249-421-11	CARBON CARBON CARBON	1K 5% 180 5% 2.2K 5% 2.2K 5%		F
Q630	8-729-255-12	TRANSISTOR 2S	C2551-	0			R698	1-216-386-11		0.56 5%		F
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td><rel< td=""><td>AV&gt;</td><td>•</td><td></td><td></td></rel<></td></res<>	ISTOR>						<rel< td=""><td>AV&gt;</td><td>•</td><td></td><td></td></rel<>	AV>	•		
R604 R605 R606 R609 R610	1-249-428-11	FUSIBLE CARBON METAL CARBON METAL	0.1 8.2K 180K 27K 100K	10% 5% 1% 5% 1%	1/2W 1/4W 1/2W 1/4W 1/4W		RY601A RY602A	1-515-805-11 1-515-805-11	RELAY, POWER RELAY, POWER			
R611	1-249-421-11	CARBON	2.2K	5%	1/4W	F			NSFORMER>		T UPLON	
R612 R613 R614 R615	1-202-883-11 1-216-386-11 1-249-418-11 1-215-438-00	SOLID METAL OXIDE CARBON METAL	680K 0.56 1.2K 5.1K	20% 5% 5% 1%	1/2W 3W 1/4W 1/4W	F ,	T603 A T604 A	\$\begin{align*} 1-450-791-12 \\ 1-424-020-11 \\ 1-450-149-11 \\ 1-424-023-12 \\ 1-421-372-21 \end{align*}	TRANSFORMER, TRANSFORMER.	HEATER LINE FILT	rer	
R616 R617 R618 R619	1-215-436-00 1-216-356-00 1-249-418-11 1-216-444-11	CARBON METAL OXIDE	4.3K 3.9 1.2K 82K	1% 5% 5% 5% 5%	1/4W 1W 1/4W 1W	F		\ 1- <b>423</b> -665-11	TRANSFORMER.			
R620	1-249-418-11 1-247-691-11	CARBON			1/4W 1/4W		Viveat	<ur><li><uar< li=""><li><uar< li=""></uar<></li><td>ISTOR&gt;</td><td></td><td></td><td></td></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></uar<></li></ur>	ISTOR>			
R621 R622 R623	1-249-424-11	CARBON CARBON	3.9K	5% 5%	1/4W 1/4W			******	controlled fidelight 1.4-1.4-1. Length of the part of the 1.4-1.7-1.4-1.1	A CONTRACTOR OF THE CONTRACTOR	*******	*****
R624 R625	1-214-780-00 1-216-386-11	METAL OXIDE	18 3.9K 1K 130K 0.56	1% 5%	1/4W 3W	F	1	*A-1331-259-A		MPLETE		•
R626 R627 R628 R629 R631	1-216-356-00 1-202-883-11 1-249-410-11 1-207-620-00 1-249-417-11	METAL OXIDE SOLID CARBON WIREWOUND CARBON	3.9 680K 270 1 1K	5% 20% 5% 10% 5%	1W 1/2W 1/4W 3W 1/4W	4 4 4	C701	1-162-115-00	ACITOR>	330PF	10%	2KV
R632 R633 R634 R635	1-214-913-00 1-249-429-11 1-249-441-11 1-215-897-11	CARBON CARBON METAL OXIDE	100K 10K 100K 6.8K	5%	1/2W 1/4W 1/4W 2W	F	C702 C703 C704 C705	1-130-479-00	CERAMIC CERAMIC MYLAR	22MF 0.01MF 330PF 0.0047MF	20% 10% 5%	250V 500V 2KV 50V
R636	1-260-065-11		1.2	5%	1/2W	P.	C706 C707	1-101-006-00	CERAMIC CERAMIC ELECT	0.047MF 0.047MF 220MF	20%	50V 50V 16V
R638 R639 R640 R641 R642	1-249-405-11 1-249-405-11 1-249-421-11 1-249-429-11 1-215-421-00	CARBON CARBON CARBON CARBON METAL	100 100 2.2K 10K 1K	5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	F F	C709 C710 C711	1-124-120-11 1-124-120-11 1-102-114-00	ELECT CERAMIC	220MF 470PF	20% 10%	16V 50V
R643	1-260-123-11 1-249-415-11	CARBON CARBON	100K 680	5% 5%	1/2W 1/4W		CR1	*1-508-784-00	INECTOR>	nr (smm þ	TTCH) 1P	
R644 R645 R649 R650	1-249-417-11 1-249-424-11 1-249-377-11	CARBON CARBON CARBON	1K 3.9K 0.47	5% 5% 5%	1/4W 1/4W 1/4W	F	CR3 CR4 CR15	*1-508-765-00 *1-564-511-31 *1-564-508-11	PIN, CONNECT PLUG. CONNEC	OR (5MM P CTOR 8P	PÎTCH) ÎP	
R651 ■R652 Z		METAL METAL	2.2K	No.	1/4W 1/4W			<910	CTURE TUBE SOC	CKET>		
R654 R655 R656	1-215-429-00 1-249-426-11 1-215-454-00	METAL CARBON METAL	2.2K 5.6K 24K		1/4W 1/4W 1/4W		SHT70	1 <b>A</b> -1-251-026-1	STRUCKET, PL	TURE TUBE		eng.
R657	1-216-386-11	METAL OXIDE	0.56	5% 5%	3W 1/4W	F		<d10< td=""><td>DE&gt;</td><td></td><td></td><td></td></d10<>	DE>			
R662 Z	1-249-418-11 1-202-884-91 1-205-900-11 1-215-904-91	WIREWOUND	1.2K 820K 1.2 100K	20% 5%	1/4W 1/2W 15W 2W		D701 D702 D703	8-719-911-19	DIODE 188119 DIODE 188119 DIODE 188119	}		

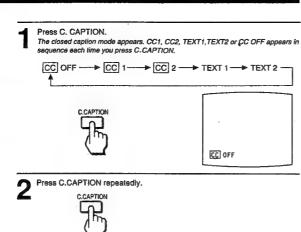
The components identified by shading and mark. A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

CR	CG
	UG

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION	-		REMARK																																																																																											
D706	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119	no.				C731	<cap< td=""><td>ACITOR&gt;</td><td>330PF</td><td>10%</td><td>2KV</td></cap<>	ACITOR>	330PF	10%	2KV																																																																																											
D707	<coi< td=""><td>DIODE RD13ES-</td><td>D2</td><td></td><td></td><td></td><td>C732 C733 C734</td><td>1-102-113-00 1-123-948-00 1-102-050-00 1-162-115-00 1-130-479-00</td><td>ELECT CERAMIC CERAMIC</td><td>22MF 0.01MF 330PF 0.0047MF</td><td>20% 10% 5%</td><td>250V 500V 2KV 50V</td></coi<>	DIODE RD13ES-	D2				C732 C733 C734	1-102-113-00 1-123-948-00 1-102-050-00 1-162-115-00 1-130-479-00	ELECT CERAMIC CERAMIC	22MF 0.01MF 330PF 0.0047MF	20% 10% 5%	250V 500V 2KV 50V																																																																																											
L702 L703	1-408-429-00 1-408-159-00 1-408-159-00 1-408-413-00	COIL, SPOOK C	HOKE 3	.3UH .3UH			C739	1-101-006-00 1-101-006-00 1-124-120-11	CERAMIC CERAMIC RLECT	0.047MF 0.047MF 220MF	20%	50V 50V 16V																																																																																											
	<neo< td=""><td>N LAMP&gt;</td><td></td><td></td><td></td><td></td><td>C740 C741</td><td>1-124-120-11 1-102-114-00</td><td>ELECT</td><td>220MF 470PF</td><td>20% 10%</td><td>16V 50V</td></neo<>	N LAMP>					C740 C741	1-124-120-11 1-102-114-00	ELECT	220MF 470PF	20% 10%	16V 50V																																																																																											
NL701	1-519-108-99 1-519-108-99	LAMP, NEON					i !	<con< td=""><td>INECTOR&gt;</td><td></td><td></td><td></td></con<>	INECTOR>																																																																																														
NLTUZ	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td><td>CG16</td><td>*1-508-784-00 *1-508-765-00 *1-564-508-11</td><td>PLUG, CONNEC</td><td>TOR 5P</td><td></td><td></td></tra<>	NSISTOR>					CG16	*1-508-784-00 *1-508-765-00 *1-564-508-11	PLUG, CONNEC	TOR 5P																																																																																													
9701 9702	8-729-119-78 8-729-119-78	TRANSISTOR 2S	C2785-	HFE				<p10< td=""><td>TURE TUBE SOC</td><td>KET&gt;</td><td></td><td></td></p10<>	TURE TUBE SOC	KET>																																																																																													
0703	8-729-119-80 4-373-933-01	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S SHEET (TRANSI SCREW (M3X10)	C2688- STOR),	LK BN; Q	703	,	GN <b>1</b> 731	<b>A</b> . 1-251-026-11	SOCKET, PIE	TURE TUBE																																																																																													
Q704		TRANSISTOR 2S			<b>U</b> 703			<010																																																																																															
0705 0706	8-729-200-17	TRANSISTOR 2S TRANSISTOR 2S	A1091-	0			D731 D732	8-719-911-19	DIODE 188119 DIODE 188119																																																																																														
	<res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td><td>D733</td><td>8-719-911-19 8-719-911-19</td><td>DIODE 1SS119 DIODE 1SS119</td><td></td><td></td><td></td></res<>	SISTOR>					D733	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119																																																																																														
R701 R702	1-202-847-00 1-202-814-11	SOLID SOLID	560K 33K	20%	1/2W 1/2W		D735	8-719-911-19 8-719-911-19	DIODE 1SS119																																																																																														
R703 R704 R705	1-202-818-00 1-202-842-11 1-202-828-11	SOLID SOLID SOLID SOLID SOLID	1K 220K 6.8K	20% 20% 20%	1/2W 1/2W 1/2W		D737	₹8-719-911-19 <coi< td=""><td>DIODE 1SS119</td><td></td><td></td><td></td></coi<>	DIODE 1SS119																																																																																														
R706 R707	1-202-561-00 1-216-510-11	SOLID METAL OXIDE	330 8.2K	20% 5%	1/2W 5W	F	L731	1-408-429-00	INDUCTOR	470UH																																																																																													
R708 R709 R710	1-249-405-11 1-249-405-11 1-215-927-00	CARBON CARBON METAL OXIDE	100 100 47K	20% 5% 5% 5% 5%	1/4W 1/4W 3W	F F	L732	1-408-159-00 1-408-159-00 1-408-413-00	COIL, SPOOK	CHOKE 3.3UH CHOKE 3.3UH																																																																																													
R711 R712	1-249-405-11 1-249-421-11	CARBON	100 2.2K 47 100	5% 5%	1/4W 1/4W	F F		<nec< td=""><td>ON LAMP&gt;</td><td></td><td></td><td></td></nec<>	ON LAMP>																																																																																														
R714 R716 R717	1-249-401-11 1-249-405-11 1-249-403-11	CARBON	47 100 68	5% 5% 5%	1/4W 1/4W 1/4W		NL731 NL732	1-519-108-99 1-519-108-99	LAMP, NEON																																																																																														
R718 R719	1-249-412-11	CARBON	390 270	5% 5%	1/4W 1/4W			<tr <="" td=""><td>ANSISTOR&gt;</td><td></td><td></td><td></td></tr> <tr><td>R720 R721 R722</td><td>1-249-405-11 1-249-409-11 1-215-423-00</td><td>CARBON CARBON METAL</td><td>100 220 1.2K</td><td>5% 5% 1%</td><td>1/4W 1/4W 1/4W</td><td></td><td>Q731 Q732</td><td>8-729-119-78</td><td>TRANSISTOR 2</td><td>SC2785-HFE</td><td></td><td></td></tr> <tr><td>R723 R724</td><td>1-249-410-11 1-215-429-00</td><td></td><td>270 2.2K</td><td>- 5%</td><td>1/4W 1/4W</td><td></td><td>Q733 Q734 Q735</td><td>8-729-119-80 8-729-255-12 8-729-200-17</td><td>TRANSISTOR 2</td><td>2SC2551-0</td><td></td><td></td></tr> <tr><td></td><td>&lt;<b>SP</b>1</td><td>ARK GAP&gt;</td><td></td><td></td><td></td><td></td><td>Q736</td><td>8-729-200-17</td><td>TRANSISTOR 2</td><td>2SA1091-0</td><td></td><td></td></tr> <tr><td></td><td>1-519-422-11</td><td>GAP, SPARK</td><td></td><td></td><td></td><td></td><td></td><td><re:< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td></re:<></td></tr> <tr><td></td><td>1-519-422-11</td><td></td><td><b>***</b>**</td><td>***<b>*</b>*</td><td>*****</td><td>*****</td><td>R731 ∗ R732</td><td>1-202-847-00 1-202-814-11</td><td></td><td>560K 20% 33K 20%</td><td>1/24</td><td>l</td></tr> <tr><td></td><td></td><td>CG BOARD, CO</td><td>MPLETE</td><td></td><td></td><td></td><td>R733 R734 R735</td><td>1-202-818-00 1-202-842-11 1-202-828-11</td><td>SOLID SOLID .</td><td>1K 20% 220K 20% 6.8K 20%</td><td>1/2W 1/2W</td><td>   </td></tr> <tr><td></td><td></td><td>SHEET (TRANS SCREW (M3X10)</td><td></td><td></td><td></td><td></td><td>R736 R737 R738</td><td>1-202-561-00 1-216-510-11 1-249-405-11</td><td>METAL OXIDE</td><td>330 20% 8.2K 5% 100 5%</td><td>1/20 5W 1/40</td><td>F</td></tr>	ANSISTOR>				R720 R721 R722	1-249-405-11 1-249-409-11 1-215-423-00	CARBON CARBON METAL	100 220 1.2K	5% 5% 1%	1/4W 1/4W 1/4W		Q731 Q732	8-729-119-78	TRANSISTOR 2	SC2785-HFE			R723 R724	1-249-410-11 1-215-429-00		270 2.2K	- 5%	1/4W 1/4W		Q733 Q734 Q735	8-729-119-80 8-729-255-12 8-729-200-17	TRANSISTOR 2	2SC2551-0				< <b>SP</b> 1	ARK GAP>					Q736	8-729-200-17	TRANSISTOR 2	2SA1091-0				1-519-422-11	GAP, SPARK						<re:< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td></re:<>	SISTOR>					1-519-422-11		<b>***</b> **	*** <b>*</b> *	*****	*****	R731 ∗ R732	1-202-847-00 1-202-814-11		560K 20% 33K 20%	1/24	l			CG BOARD, CO	MPLETE				R733 R734 R735	1-202-818-00 1-202-842-11 1-202-828-11	SOLID SOLID .	1K 20% 220K 20% 6.8K 20%	1/2W 1/2W	 			SHEET (TRANS SCREW (M3X10)					R736 R737 R738	1-202-561-00 1-216-510-11 1-249-405-11	METAL OXIDE	330 20% 8.2K 5% 100 5%	1/20 5W 1/40	F
ANSISTOR>																																																																																																							
R720 R721 R722	1-249-405-11 1-249-409-11 1-215-423-00	CARBON CARBON METAL	100 220 1.2K	5% 5% 1%	1/4W 1/4W 1/4W		Q731 Q732	8-729-119-78	TRANSISTOR 2	SC2785-HFE																																																																																													
R723 R724	1-249-410-11 1-215-429-00		270 2.2K	- 5%	1/4W 1/4W		Q733 Q734 Q735	8-729-119-80 8-729-255-12 8-729-200-17	TRANSISTOR 2	2SC2551-0																																																																																													
	< <b>SP</b> 1	ARK GAP>					Q736	8-729-200-17	TRANSISTOR 2	2SA1091-0																																																																																													
	1-519-422-11	GAP, SPARK						<re:< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td></re:<>	SISTOR>																																																																																														
	1-519-422-11		<b>***</b> **	*** <b>*</b> *	*****	*****	R731 ∗ R732	1-202-847-00 1-202-814-11		560K 20% 33K 20%	1/24	l																																																																																											
		CG BOARD, CO	MPLETE				R733 R734 R735	1-202-818-00 1-202-842-11 1-202-828-11	SOLID SOLID .	1K 20% 220K 20% 6.8K 20%	1/2W 1/2W	 																																																																																											
		SHEET (TRANS SCREW (M3X10)					R736 R737 R738	1-202-561-00 1-216-510-11 1-249-405-11	METAL OXIDE	330 20% 8.2K 5% 100 5%	1/20 5W 1/40	F																																																																																											





Select CC1 or CC2 to view Captions.

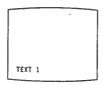
A Caption is a printed version of the dialogue or sound effects of a program.

(The mode should be set to CC1 for most programs.)



Select TEXT1 or TEXT2 to view Text.

Text is information that is presented using the half to full television screen. It is usually not related to the program.



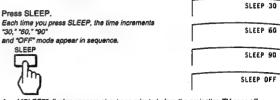
Select CC OFF if you don't want to view Closed Caption nor Text.



## **Using Convenient Features**

456

	Muting the sound — MUTING
DEMO RETURN	Press MUTING. "MUTING" appears on the screen.
FAVORITE - +	To restore the sound Press MUTING again, or press VOL +.
Front inner panel	Keeping the displays on-screen — DISPLAY
MUTING CCAPTION SLEEP POWER	Press DISPLAY.  All the existing displays appear: channel number, channel caption (if set), MTS mode ("SAP" only), window picture input mode, and the current time ("AM" or "PM" disappears after about three seconds).
CH++ FREEZE TWYDEO SWAP PIP	To turn off the displays Press DISPLAY again.
CH- POSITION AUDIO OFF	Setting the sleep timer SLEEP
1 2 3 TWHIDED	The sleep timer turns off the projection TV automatically after the amount of time you select.



A red "SLEEP" display appears about one minute before the projection TV goes off.

# To cancel the setting. Press SLEEP until OFF mode appears. A green "SLEEP OFF" display appears for about three seconds. OR

Turn the projection TV off.

The sleep timer setting is cancelled.

### Switching quickly between two channels — JUMP

Use this function to keep track of two programs alternately.

To recall the channel you were watching previously Press JUMP.

To switch back to the first channel Press JUMP again.



### Previewing the features - DEMO

Press DEMO (front inner panel). Functions and menus are displayed one by one.

To restart DEMO from the beginning Press DEMO again.

To stop DEMO Press any button.





Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

DEE NO	PART NO.	DESCRIPTION				REWARK	!REE NO	PART NO.	DESCRIPTION			REMARK
ner.NU.												
R739 R740 R741 R742 R744	1-249-405-11 1-215-927-00 1-249-405-11 1-249-421-11 1-249-401-11	CARBON METAL OXIDE CARBON CARBON CARBON	100 47K 100 2.2K 47	5% 5% 5% 5%	1/4W 3W 1/4W 1/4W 1/4W	F F	L761 L762 L763 L764	<pre><c011 1-408-159-00="" 1-408-413-00<="" 1-408-429-00="" pre=""></c011></pre>	INDUCTOR COIL SPOOK	470UH CHOKE 3.3UH CHOKE 3.3UH 22UH		
R745 R746 R747 R748 R749	1-215-455-00 1-249-405-11 1-249-403-11 1-249-412-11 1-249-410-11	METAL CARBON CARBON CARBON CARBON	27K 100 68 390 270	1% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		NL761	<neo< td=""><td>N LAMP&gt; LAMP, NEON</td><td>22011</td><td></td><td></td></neo<>	N LAMP> LAMP, NEON	22011		
R750 R751 R752 R754	1-249-405-11 1-249-409-11 1-215-423-00 1-215-429-00	CARBON CARBON METAL METAL	100 220 1.2K 2.2K	5% 5% 1% 1%	1/4W 1/4W 1/4W 1/4W		NL762	1-519-108-99 <tra 8-729-119-78</tra 	NSISTOR>	SC2785-HFF		
•	<spa< td=""><td>RK GAP&gt;</td><td></td><td></td><td></td><td></td><td>0762 0763</td><td>8-729-119-78 8-729-119-80</td><td>TRANSISTOR 25</td><td>SC2785-HFE SC2688-LK</td><td></td><td></td></spa<>	RK GAP>					0762 0763	8-729-119-78 8-729-119-80	TRANSISTOR 25	SC2785-HFE SC2688-LK		
SG731	1-519-422-11	GAP, SPARK					Q764 Q765	8-729-255-12 8-729-200-17	TRANSISTOR 2	SC2551-0		
	1-519-422-11	·	:****	*****	*****	*****	Q766	8-729-200-17	TRANSISTOR 2	SA1091-0		
	*A-1331-261-A					2		<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
	4-373-933-01 4-382-854-11	SHEET (TRANS SCREW (M3X10)	(STOR)	, BN SW (+)			R761 R762 R763 R764 R765	1-202-847-00 1-202-814-11 1-202-818-00 1-202-842-11 1-202-828-11	SOLID SOLID SOLID	560K 20% 33K 20% 1K 20% 220K 20% 6.8K 20%	1/2W 1/2W 1/2W 1/2W 1/2W	
•	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td>R766</td><td>1-202-561-00</td><td>SOLID</td><td></td><td></td><td></td></cap<>	ACITOR>					R766	1-202-561-00	SOLID			
C761 C762 C763 C764 C765	1-162-115-00 1-123-948-00 1-102-050-00 1-162-115-00 1-130-479-00	CERAMIC BLECT CERAMIC CERAMIC MYLAR	330PF 22MF 0.01M 330PF 0.004	ļ.	10% 20% 10% 5%	2KV 250V 500V 2KV 50V	R767 R768 R769 R770	1-216-510-11 1-249-405-11 1-249-405-11 1-215-927-00	METAL OXIDE CARBON CARBON	8.2K 5% 100 5% 100 5% 47K 5%	5W 1/4W 1/4W 3W	4 4 4 4
C766 C767 C769 C770	1-101-006-00 1-101-006-00 1-124-120-11 1-124-120-11	CERAMIC ELECT ELECT	0.047 0.047 220MF 220MF	MF MF	20% 20%	50V 50V 16V 16V	R771 R772 R773 R774 R776	1-249-405-11 1-249-421-11 1-249-413-11 1-249-401-11 1-249-405-11	CARBON CARBON CARBON	100 5% 2.2K 5% 470 5% 47 5% 100 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F
C771		CERAMIC INECTOR>	470PF		10%	50V	R779 R780	1-249-403-11 1-249-412-11 1-249-415-11 1-249-405-11	CARBON CARBON CARBON	68 5% 390 5% 680 5% 100 5% 220 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
CB4 CB5	*1-508-784-00 *1-508-765-00 *1-564-511-11 *1-564-511-21 *1-564-508-11	PLUG, CUNNEC PLUG. CONNEC	TUR 8P TOR 8P		H) 3P		R781 R782 R783 R784 R785	1-249-409-11 1-215-423-00 1-215-433-00 1-215-429-00 1-215-418-00	METAL METAL METAL	1.2K 1% 3.3K 1% 2.2K 1% 750 1%	1/4W 1/4W 1/4W 1/4W	
	<p10< td=""><td>CTURE TUBE SOC</td><td>KET&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></p10<>	CTURE TUBE SOC	KET>									
CRT76	1 <b>A</b> . 1-251-026-13	SOCKET, PIC	ture t	iibB			SG761	<5P# 1-519-422-11	ARK GAP> GAP SPARK			
	<d10< td=""><td>DE&gt;</td><td></td><td></td><td></td><td></td><td>SG762</td><td>1-519-422-11</td><td>GAP, SPARK</td><td></td><td></td><td></td></d10<>	DE>					SG762	1-519-422-11	GAP, SPARK			
D761	8-719-911-19	DIODE 188119					*****	************			******	******
D762 D763 D764	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119 DIODE 188119					! !	*A-1342-214-A	* DUARD, CUI			
D765 D766	8-719-911-19 8-719-911-19	DIODE 1SS119						*4-395-527-01	HOLDER (B),	TR		
D768 D769	8-719-911-19	DIODE 155119 DIODE RD4.7E	1					<ca1< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td></ca1<>	PACITOR>			
							C1501 C1502 C1504 C1505 C1506	1-126-101-11 1-106-383-00 1-124-907-11	ELECT Mylar Elect	0.01MF 100MF 0.047MF 10MF 0.0047MF	10% 20% 20% 10%	50V 16V 200V 50V 200V



											<u>L</u>
REF.NO. PART NO.			-	REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
C1507 1-106-36 C1508 1-162-31 C1509 1-106-36 C1510 1-126-35 C1511 1-124-66	7-00 MYLAR 8-11 CERAMIC 7-00 MYLAR 5-11 ELECT 8-11 ELECT	0.01MF 0.001MF 0.01MF 33MF 2.2MF	10% 10% 10% 20% 20%	100V 500V 100V 160V 200V	! 01555	8-729-202-02 8-729-231-60 8-729-202-02	TRANSISTOR 2	SD1406-	YGR		
C1512 1-106-39 C1513 1-162-31 C1514 1-102-95 C1515 1-102-95 C1516 1-102-96	9-00 CERAMIC	0.1MF 0.001MF 15PF 22PF 33PF	10% 10% 5% 5%	200V 500V 50V 50V 50V	R1502 R1503 R1504	1-249-451-11 1-249-414-11 1-247-734-11 1-249-384-11	CARBON CARBON CARBON CARBON	2.2 560 39	5% 5% 5%	1/4W 1/4W 1/2W 1/4W	4 4 4
C1517 1-123-87 C1518 1-102-07 C1519 1-106-35 C1520 1-126-80 C1521 1-124-90	5-11 BLECT 4-00 CERAMIC 9-00 MYLAR 3-11 BLECT 7-11 BLECT	10MF 0.001MF 0.0047MF 47MF 10MF	20% 10% 10% 20% 20%	50V 50V 200V 16V 50V	R1506 R1507 R1508 R1509	1-249-405-11 1-249-419-11 1-249-412-11 1-249-436-11 1-249-421-11 1-249-436-11	CARBON CARBON CARBON CARBON	1.5K 390 39K 2.2K 39K	5% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	
C1534 1-101-00 C1551 1-124-12 C1552 1-124-12 C1553 1-102-82 C1554 1-102-82	2-11 ELECT 2-11 ELECT 4-00 CERAMIC	0.0047MF 100MF 100MF 470PF 470PF	20% 20% 5% 5%	50V 50V 50V 50V 50V	R1511 R1512 R1513 R1514	1-249-438-11 1-249-441-11 1-249-432-11 1-249-405-11 1-249-435-11	CARBON CARBON CARBON CARBON	1.2K 100K 18K	5%	1/4W 1/4W 1/4W 1/4W 1/4W	
C1555	3-00 MYLAR 4-00 CERAMIC 4-00 CERAMIC 4-00 CERAMIC	0.01MF 0.01MF 470PF 470PF 470PF	5% 5% 5% 5%	50V 50V 50V 50V 50V	R1517 R1519 R1520 R1521	1-247-713-11 1-215-916-00 1-249-432-11 1-249-414-11 1-249-384-11	CARBON METAL OXIDE CARBON CARBON		5% % % % % % % % % % % % % % % % % % %	1/4W 3W 1/4W 1/4W	
C1560 I-102-82 C1561 1-130-48 C1562 1-130-48 C1563 1-130-48	4-00 CERAMIC 3-00 MYLAR 3-00 MYLAR 3-00 MYLAR	470PF 0.01MF 0.01MF 0.01MF	5% 5% 5% 5%	50V 50V 50V 50V	R1523 R1524 R1525	1-249-400-11 1-249-418-11 1-249-421-11 1-249-426-11 1-249-414-11	CARBON CARBON CARBON CARBON	39 1.2K 2.2K 5.6K 560		1/4W 1/4W 1/4W 1/4W 1/4W	•
	<d10de></d10de>				111721						
D1501 8-719-91 D1502 8-719-91 D1503 8-719-91 D1504 8-719-91 D1505 8-719-91	1-19 DIODE 1SS 1-19 DIODE 1SS 1-19 DIODE 1SS	119 119 119 119			R1528 R1529 R1530 R1531 R1532	1-249-429-11 1-249-414-11 1-216-451-11 1-249-429-11 1-249-421-11	METAL UXIDE CARBON	10K 2.2K	5% 5% 5% 5%	1/4W 1/4W 2W 1/4W 1/4W	F
D1506 8-719-91 D1507 8-719-11 D1508 8-719-11	1-19 DIODE ISS 0-88 DIODE RD3 0-88 DIODE RD3 1-19 DIODE ISS	119 9ES-B2 9ES-B2 119			R1533 R1534 R1535 R1540 R1541	1-247-903-91 1-249-423-11 1-249-392-11 1-215-445-00 1-215-445-00	CARBON CARBON CARBON METAL METAL	1M 3.3K 8.2 10K 10K	5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	F
					R1542	1-215-445-00 1-215-445-00	METAL	10K	1%	1/4W	
	<1C> 5-58 IC UPC455 2-77 IC LM324N				R1552	1-215-445-00 1-215-423-00 1-249-417-11 1-215-445-00	METAL METAL CARBON METAL	10K 1.2K 1K 10K	1% 1% 5% 1%	1/4W 1/4W 1/4W 1/4W	
	<coil></coil>				R1555	1-215-375-00 1-215-375-00	METAL METAL	12 12	1% 1%	1/4W 1/4W	
L1502 1-408-41		56UH			R1557	1-215-375-00 1-215-445-00 1-215-445-00	METAL METAL METAL	12 10K 10K	1% 1% 1% 1%	1/4W 1/4W 1/4W	
	<transistor></transistor>					1-215-445-00 1-215-423-00		10K 1.2K	1% 1% 1%	1/4W 1/4W	
Q1501 8-729-20 Q1502 8-729-01 Q1503 8-729-11 Q1504 8-729-11	9-78 TRANSISTO	R 2SA1306A-Y R 2SC4793 R 2SC2785-HFE R 2SC2785-HFE			R1562 R1563 R1564	1-215-423-00 1-215-445-00 1-249-417-11	METAL METAL CARBON	1.2K 10K 1K	5%	1/4W 1/4W 1/4W	
Q1505 8-729-11 Q1506 8-729-11 Q1507 8-729-11 Q1508 8-729-1	.9-76 TRANSISTO .9-78 TRANSISTO .9-78 TRANSISTO .12-86 TRANSISTO	R 2SA1175-HFE R 2SC2785-HFE R 2SC2785-HFE R 2SC3733 R 2SD1406-YGR R 2SB1015-Y			R1566 R1567	1-215-445-00 1-215-375-00 1-215-375-00 1-215-375-00 1-215-445-00	METAL METAL	10K 12 12 12 10K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q1551 8-729-23 Q1552 8-729-20	2 02 1111121010	2021013			R1571	1-215-445-00 1-249-417-11	CARBON	10K 1K	1% 5% 1%	1/4W 1/4W	
Q1553 8-729-23	31-60 TRANSISTO	R 2SD1406-YGR			R1572	1-215-445-00	METAL	10K	1%	1/4W	

### KP-41EXR96 RM-Y112A



REF.NO. PART NO.	DESCRIPTION	N -		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1573 1-215-375-0 R1574 1-215-375-0 R1575 1-215-375-0	O METAL O METAL	12 1% 12 1%	1/4W 1/4W		C1705	1-102-963-00	CERAMIC	33PF	5%	50V
R1575 1-215-375-0 R1576 1-215-445-0 R1577 1-215-445-0	O METAL O METAL O METAL	12 17 12 17 12 17 10K 17 10K 17	1/4W 1/4W		C1706 C1707	1-102-963-00 1-102-963-00 1-102-963-00	CERAMIC CERAMIC CERAMIC	33PF 33PF 33PF 33PF 33PF	5% 5% 5%	50V 50V 50V
R1578 1-249-417-1	1 CARBON	1K 5%	1/40		C1709 C1710	1-102-963-00 1-102-963-00	CERAMIC CERAMIC	33PF 33PF	5% 5%	50V 50V
R1579 1-249-417-1 R1580 1-249-417-1 R1581 1-249-432-1	1 CARBON 1 CARBON 1 CARBON	1K 5% 1K 5% 18K 5%	1/4W 1/4W 1/4W		C1711 C1712	1-126-233-11 1-124-916-11	ELECT ELECT	22MF 22MF	20% 20%	50V 25V
R1582 1-249-432-1	1 CARBON	18K 5%	1/4W		C1713 C1714 C1715	1-102-963-00 1-102-963-00 1-102-963-00 1-102-963-00 1-102-963-00 1-126-233-11 1-124-916-11 1-102-074-00 1-124-478-11	CERAMIC ELECT ELECT	0.001MF 100MF 100MF	10% 20% 20%	50V 25V 25V
>>	ONNECTOR>				C1716	1-126-803-11	ELECT	47MF 47MF	20%	25V
V2 *1-564-518-1 V22 1-573-300-1	ONNECTOR> 1 PLUG, CONNE 1 CONNECTOR, I	CTOR 3P BOARD TO BOAR	RD 18P		C1717 C1718	1-126-803-11 1-102-074-00 1-124-234-00	ELECT CERAMIC ELECT	47MF 0.001MF 22MF	20% 10% 20%	25V 50V 16V
	******	*******	******	******	C1720	1-130-491-00	MYLAR	0.047MF	5%	50 <b>V</b>
*A-1346-117-	A D BOARD, COI	MPLETE *****			C1721 C1722	1-130-491-00 1-130-491-00 1-124-234-00	MYLAR MYLAR FLECT	0.047MF 0.047MF 22MF	5% 5% 20% 5%	50V 50V 16V
4-382-854-1	1 CLIP, FUSE 1 SCREW (M3X1)	0), P, SW (+)	) .	,	C1725 C1726	1-130-491-00 1-130-491-00 1-124-234-00 1-102-963-00 1-124-122-11	CERAMIC BLECT	33PF 100MF	5% 20%	50V 35V
*4-395-527-0	i HOLDER (B),	TK			C1727	1-102-963-00 1-102-963-00	CERAMIC	33PF 33PF	5% 5%	50V 50V
	APACITOR>				C1729 C1730	1-108-426-91 1-102-963-00	MYLAR CERAMIC	0.027MF 33PF 100MF		200 <b>V</b> 50 <b>V</b>
C901 1-126-320-1 C902 1-124-477-1 C903 1-130-471-0	1 ELECT 1 ELECT 0 MYLAR	10MF 47MF	20% 20%	16V 16V 50V		1-124-122-11	MVI AD	0.027MR		35V 200V
C903 1-130-471-0 C904 1-130-471-0 C905 1-124-477-1	O MYLAR 1 ELECT	10MF 47MF 0.001MF 0.001MF 47MF	5% 20%	50V 16V	C1734	1-108-426-91 1-102-963-00 1-102-963-00	CERAMIC	33PF 33PF	5% 5%	50V 50V
C906 1-126-233-1 C907 1-126-101-1	1 ELECT	22MF 100MF		50V 16V	C1735 C1736	1-124-122-11 1-108-426-91	ELECT MYLAR	100MF 0.027MF	20%	35V 200V
C908 1-124-907-1 C910 1-130-483-0	1 BLECT O MYLAR	10MF 0.01MF	20% 5%	50V 50V	I C1738	1-124-937-11 1-124-122-11	RLECT	10MF 100MF	20% 20%	16V 35V
C911 1-131-341-0	O TANTALUM	0.1MF	20%	16V 50V	C1740	1-136-153-00 1-124-122-11 1-124-122-11	ELECT	0.01MF 100MF 100MF	5% 20% 20%	50V 35V 35V
C912 1-124-903-1 C913 1-126-233-1 C914 1-126-803-1	1 RIRCT	1MF 22MF 47MF	20%	50V 16V					20%	357
C915 1-124-927-1 C916 1-102-074-0	1 ELECT	4.7MF 0.001MF	20% 10%	50V 50V	1 61755	1-126-104-11 1-124-478-11 1-126-375-11 1-106-220-00	ELECT BLECT Mylar	470MF 100MF 100MF 0.1MF 0.1MF	20% 20% 10%	25V 25V 100V
C917 1-130-471-0 C918 1-102-963-0	O MYLAR O CERAMIC	0.001MF 33PF 33PF	5% 5% 5%	50V	C1756	1-106-220-00		0.1MF	10%	100V
C919 1-102-963-0 C920 1-102-963-0	O CERAMIC -	33PF	5%	50V 50V	C1758	1-106-220-00 1-106-220-00	MYLAR	0.1MF 0.1MF	10% 10%	100V 100V
C921 1-102-963-0 C922 1-102-963-0		33PF 33PF	5% 5%	50V 50V	C1759 C1760 C1763	1-106-220-00 1-106-220-00 1-126-096-11	MYLAR MYLAR ELECT	0.1MF 0.1MF 10MF	10% 10% 20%	100V 100V 25V
C923 1-102-963-0	O CERAMIC O CERAMIC	33PF 100PF	5% 5% 5%	50V 50V	C1764	1-124-477-11	ELECT	47MF	20% 20%	16V
C932 1-124-903-1 C933 1-124-234-0	1 ELECT	1MF 22MF	20% 20%	50V 16V	C1765 C1766	1-124-477-11 1-126-101-11	ELECT ELECT	47MF 100MF 10MF	20%	16V 16V
C934 1-124-234-0 C935 1-124-234-0		22MF 22MF	20% 20%	16V 16V	C1769 C1770	1-126-157-11 1-130-495-00	BLECT Mylar	0.1MF	20% 5%	16V 50V
C936 1-124-234-( C937 1-124-234-(	O ELECT	22MF 22MF	20% 20%	16V 16V	C1771 C1772		ELECT ELECT	10MF 10MF	20%	25V 25V
C938 1-124-234-0 C939 1-124-234-0		22MF 22MF	20% 20%	16V 16V	C1861	1-102-074-00	CERANIC	0.001MF	10%	50 <b>V</b>
C940 1-124-916-1 C941 1-102-123-0	1 ELECT O CERAMIC	22MF 0.0033MF	20% 10%	25V 50V			NECTOR>	amon mn		
C942 1-102-123-0 C943 1-102-123-0		0.0033MF 0.0033MF	10 <b>%</b> 10 <b>%</b>	50V 50V	D1 D2 D3	*1-564-510-11 *1-564-511-11 *1-564-512-11	PLUG, CONNE PLUG, CONNE PLUG, CONNE	CTOR 8P		
C1701 1-124-907- C1702 1-124-907-	1 ELECT		20% 20%	50V 50V	D4 D5	*1-564-508-11 *1-564-511-11	PLUG, CONNE PLUG, CONNE	CTOR 5P		
C1703 1-124-907- C1704 1-123-875-	1 ELECT 1 ELECT	10MF 10MF	20% 20%	50V 50V	D6	1-691-169-11	PIN, CONNEC	TOR 12P		

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number

specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



|  | REF.NO. PART  | NO.                                 | DESCRIPTION  | REMARK       | REF.NO.                      | PART NO.   
   
  | DESCRIPTIO                             | ON .                     |                          |                      | REMARK |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|---|-------------------------------------|--|--------------|------------------------------
--
--
---|--|--------------------------|--------------------------|----------------------|--------|-----------------------------------|---------------------------------------|------------------------------------|--|--|----------------------|--|--|------------------------|------------|--|--|-------------------------------------|------------|-----------|--|---|--------------|------------------------------|--------------------------|-----------|-----|--|--|---------------------------------------|------------|-----------|--------------|--|--------|--|------------|-----------|-----|--|--|--|------------|-----------|--------------|--|--|--|---------|--|--|--|--
--	--------------------------	-------------------------------------	--	---	----------------------	--	-------------------------	------------	----------------------	----------------------	--	--	--------------------------	------------------------	------------------------------	--	--------------	------------------------------	----------------	--------------	----	------	--	--	-----------	-----------	-----------------	----------	------	--------------	-------	------	----------	------	--	--	--------------------------	--	--	----	------	--------------	-------	-----	----------	------	--	---------------------	---	--	--	--	------	--------------	-------	-----	----------	------	--
--	--------------------------	------------------------	------------------------------	--	----------------------	--	-------------------------	----------------------	----------	----------------------	--	---	--------------------------	------------------------	----------------------------	--	--------------	------------------------------	----------------	-------------	----	--------------	--	--	------------	------------	-------------	--	------	--------------	-------	------	--------------------------	------	--	--	--------------------------	-------------------------	-------------	--	----------------------	--	-------------------------------	---------------------	----------------	----------------------	--	--	--	--	--	--	--	--	--	--	--	--	--
D1708 8-719-911-19   D1008 ISS119	D7 *1-56	4-507-11	PLUG, CONNECTOR	4P 3P		<c01< td=""><td>L&gt;</td><td></td><td></td><td></td><td></td></c01<>																																																					
   
  | L>                                     |                          |                          |                      |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D1708 8-719-911-19   D1008 ISS119  | 09 *1-56  | 4-507-11<br>4-513-31                | PLUG, CONNECTOR<br>PLUG, CONNECTOR                       | 4P<br>IOP    | L901<br>L902<br>L903<br>L904 | 1-459-313-00<br>1-459-313-00<br>1-459-313-00<br>1-459-313-00   
   
  | COIL WITH (                            | CORE (HWC)<br>CORE (HWC) |                          |                      |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D1708 8-719-911-19   D1008   ISS119  | non: 9-7:   |                                     | DE>  |              |                              | <tr <="" td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td></tr> <tr><td>  D1708 8-719-911-19   D1008 ISS119  </td><td>D902 8-71<br/>D1701 8-71<br/>D1702 8-71</td><td>9-911-19<br/>19-900-95<br/>19-911-19</td><td>DIODE 1SS119<br/>DIODE VO9G<br/>DIODE 1SS119<br/>DIODE VO9G</td><td></td><td>0902<br/>0906<br/>0907</td><td>8-729-900-89<br/>8-729-119-78<br/>8-729-119-78<br/>8-729-900-89</td><td>TRANSISTOR<br/>TRANSISTOR<br/>TRANSISTOR</td><td>2SC2785-I<br/>2SC2785-I</td><td>ife<br/>ife</td><td></td><td></td></tr> <tr><td>  D1708 8-719-911-19   D1008   ISS119  </td><td>D1705 8-71</td><td>19-900-95</td><td>DIODE VO9G<br/>DIODE VO9G<br/>DIODE VO9G</td><td>,</td><td>0909<br/>0910</td><td>8-729-119-78<br/>8-729-119-78</td><td>TRANSISTOR<br/>TRANSISTOR</td><td>2SC2785-I</td><td>HFE</td><td></td><td></td></tr> <tr><td>  DITIO   8-719-911-19   DIONE   ISSI19  </td><td>D1707 8-71</td><td>19-911-19</td><td>DIODE IDDIII</td><td></td><td>1 4777</td><td></td><td>TRANSISTOR</td><td>2SA1175-I</td><td>ife</td><td></td><td></td></tr> <tr><td>  101713 8-719-911-19   DIONE ISSI19   8901 1-215-463-00 METAL   56K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8903 1-215-463-00 METAL   15K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8905 1-215-465-00 METAL   15K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8905 1-215-465-00 METAL   15K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8905 1-215-469-00 METAL   15K   12 1/4W     101718 8-719-911-19   DIONE ISSI19   8905 1-215-469-00 METAL   15K   12 1/4W     101718 8-719-911-19   DIONE ISSI19   8907 1-215-469-00 METAL   100K   12 1/4W     101720 8-719-109-50   DIONE RD2. DES-B1   8909 1-215-469-00 METAL   15K   12 1/4W     101721 8-719-109-50   DIONE RD2. DES-B1   8910 1-215-437-00 METAL   15K   12 1/4W     101722 8-719-109-50   DIONE RD2. DES-B1   8910 1-215-437-00 METAL   15K   12 1/4W     101723 8-719-109-50   DIONE RD2. DES-B1   8910 1-215-437-00 METAL   22K   12 1/4W     101724 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101725 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101726 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-710-10   ENDINORMORE   8921 1-215-439-00 METAL   22K   12 1/4W     101728 8-719-710-10   ENDINORMORE   8921 1-215-439-00 METAL   22K   12 1/4W     101728 8-719-710-10   ENDI</td><td>D1710 8-71</td><td>19-911-19</td><td>DIODE 1SS119</td><td></td><td></td><td><re:< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td></re:<></td></tr> <tr><td>  Diff  8-719-911-19   DIODE ISSI19   R906   1-215-469-00   METAL   100K   12   1/44   1017   R917   R917-19   DIODE ISSI19   R907   1-215-469-00   METAL   100K   12   1/44   R919   1-215-499-00   METAL   150K   12   1/44   R919   1-215-499-00   METAL   16   R911   1-215-499-00   METAL   16   R911   1-215-499-00   METAL   17   1/44   R919   1-</td><td>D1712 8-71<br/>D1713 8-71</td><td>19-911-19<br/>19-911-19<br/>19-911-19</td><td>DIODE ISSI19<br/>DIODE ISSI19<br/>DIODE ISSI19</td><td>,</td><td>R902<br/>R903<br/>R904</td><td>1-215-463-00<br/>1-215-449-00<br/>1-215-455-00</td><td>METAL<br/>METAL<br/>METAL</td><td>15K<br/>27K</td><td>1%<br/>1%<br/>1%<br/>1%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td>  R912   1-215-493-00   MBTAL   2AR   12   1/4W   R914   1-215-493-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R917   1-215-433-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   120   12   1/4W   R919   1-215-410-00   MBTAL   1/4W   R920   1-215-410-00   MBTAL   1/4W   R920   1-215-439-00   M</td><td>D1716 8-71<br/>D1717 8-71</td><td>19-911-19<br/>19-911-19</td><td>DIODE 188119<br/>DIODE 188119</td><td></td><td>R906<br/>R907</td><td>1-215-469-00<br/>1-215-469-00</td><td>METAL<br/>METAL</td><td>100K<br/>100K</td><td>1%</td><td>1/4W</td><td></td></tr> <tr><td>  R912   1-215-493-00   MBTAL   2AR   12   1/4W   R914   1-215-493-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R917   1-215-433-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   120   12   1/4W   R919   1-215-410-00   MBTAL   1/4W   R920   1-215-410-00   MBTAL   1/4W   R920   1-215-439-00   M</td><td>D1721 8-7</td><td>19-109-50</td><td>DIODE RD2.OES-B</td><td>31<br/>11</td><td>R909</td><td>1-215-473-00</td><td>METAL</td><td>150K</td><td>1%<br/>1%</td><td>1/4W</td><td></td></tr> <tr><td>  F901   A   F32 745-11   PUSE, GLASS   TUBE 3   154 /1259   R916   1-215-457-00   METAL   22K   17   1/4W   R917   1-215-453-00   METAL   120   17   1/4W   R918   /td><td>D1722 8-71<br/>D1723 8-71</td><td></td><td></td><td>11</td><td>R912</td><td>1-215-453-00</td><td>METAL</td><td>22K</td><td>1%<br/>1%</td><td>1/4W</td><td></td></tr> <tr><td>  R910   1-215-457-00</td><td>Jense manage of Desiring matters of the 1880 of the</td><td></td><td></td><td></td><td>R914</td><td>1-215-453-00</td><td>METAL</td><td>22K</td><td>1%<br/>1%</td><td>1/4W</td><td></td></tr> <tr><td>  C901 8-759-145-58   C UPC4558C   C UPC4558</td><td>1901 A 1-5</td><td>32-745-11</td><td>RUSE, GLASS TOE</td><td>B 3 15A/125V</td><td>R917</td><td>1-215-453-00</td><td>METAL</td><td>22K</td><td>1%<br/>1%</td><td>1/4W</td><td></td></tr> <tr><td>  Coron   Reference   Referenc</td><td></td><td></td><td></td><td></td><td>  R920</td><td>1-215-399-00</td><td>METAL</td><td>120</td><td>1%<br/>1%</td><td>1/4W</td><td></td></tr> <tr><td>  Composition   /td><td>IC902 8-7<br/>IC903 8-7<br/>IC904 8-7</td><td>52-033-68<br/>59-701-56<br/>59-701-65</td><td>IC CXA1268P<br/>IC NJM78MO5FA<br/>IC NJM79MO5FA</td><td></td><td>R923<br/>R924<br/>R925</td><td>1-215-441-00<br/>1-215-441-00<br/>1-215-441-00</td><td>METAL<br/>METAL<br/>METAL</td><td>6.8K<br/>6.8K<br/>6.8K</td><td>1%<br/>1%<br/>1%<br/>1%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td>  C1702 8-759-602-19   IC M5220L   R932 1-215-433-00   METAL   3.3K   1%   1/4W   IC1704 8-749-923-16   IC STK4278-L   R933 1-215-433-00   METAL   3.3K   1%   1/4W   IC1706 8-749-923-16   IC STK4278-L   R934 1-215-433-00   METAL   3.3K   1%   1/4W   IC1706 8-759-113-13   IC UPC1498H   R935 1-215-439-00   METAL   5.6K   1%   1/4W   IC1707 8-759-113-13   IC UPC1498H   R936 1-215-439-00   METAL   5.6K   1%   1/4W   IC1708 8-759-145-58   IC UPC4558C   R938 1-215-417-00   METAL   680   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R938 1-215-417-00   METAL   3.3K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-439-00   METAL   3.3K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   3.3K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-445-00   METAL   IC1714</td><td>IC907 8-7<br/>IC908 8-7<br/>IC910 8-7</td><td>59-140-53<br/>59-145-58<br/>59-054-40</td><td>IC UPD4053BC<br/>IC UPC4558C<br/>IC PA0036</td><td></td><td>R927<br/>R928<br/>R929</td><td>1-215-463-00<br/>1-215-461-00<br/>1-215-433-00</td><td>METAL<br/>METAL<br/>METAL</td><td>56K<br/>47K<br/>3.3K</td><td></td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td>  Result</td><td>IC1702 8-7</td><td>59-602-19</td><td>IC M5220L</td><td></td><td>R931</td><td>1-215-433-00</td><td>METAL</td><td></td><td></td><td>1/4W</td><td></td></tr> <tr><td>  C1707 8-759-113-13   C UPC1498H   R937 1-215-439-00   METAL   S.6K 1% 1/4W     C1709 8-759-145-58   C UPC4558C   R938 1-215-417-00   METAL   S.6K 1% 1/4W     C1714 8-759-145-58   C UPC4558C   R939 1-215-433-00   METAL   S.6K 1% 1/4W     C1715 8-759-145-58   C UPC4558C   R940 1-215-429-00   METAL   S.6K 1% 1/4W     C1718 8-759-145-58   C UPC4558C   R940 1-215-441-00   METAL   S.6K 1% 1/4W     C1718 8-759-145-58   C UPC4558C   R942 1-215-441-00   METAL   S.6K 1% 1/4W     C1718 8-759-145-58   C UPC4558C   R942 1-215-441-00   METAL   S.6K 1% 1/4W     R943 1-215-441-00   METAL   S.6K 1% 1/4W     R944 1-215-439-00   METAL   S.6K 1% 1/4W     R945 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R947 1-215-445-00   METAL   S.6K 1% 1/4W     R948 1-215-445-00   METAL   S.6K 1% 1/4W     R949 1</td><td>IC1704 8-7<br/>IC1705 8-7</td><td>49-923-16<br/>49-923-16</td><td>IC STK4278-L<br/>IC STK4278-L</td><td></td><td>R933<br/>R934<br/>R935</td><td>1-215-433-00<br/>1-215-433-00<br/>1-215-439-00</td><td>METAL<br/>METAL<br/>METAL</td><td>3.3K<br/>3.3K<br/>5.6K</td><td>1%<br/>1%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td>R941 1-215-441-00 METAL 6.8K 1% 1/4W  1C1715 8-759-145-58 IC UPC4558C  1C1718 8-759-145-58 IC UPC4558C  R942 1-215-451-00 METAL 18K 1% 1/4W  R943 1-215-441-00 METAL 6.8K 1% 1/4W  R944 1-215-439-00 METAL 5.6K 1% 1/4W  R945 1-215-445-00 METAL 10K 1% 1/4W  R946 1-215-445-00 METAL 10K 1% 1/4W</td><td>IC1708 8-7<br/>IC1709 8-7</td><td>59-113-13<br/>59-145-58</td><td>1C UPC1498H<br/>1C UPC4558C</td><td></td><td>R937<br/>R938</td><td>1-215-439-00<br/>1-215-417-00</td><td>METAL<br/>METAL</td><td>5.6K<br/>680</td><td>1%</td><td>1/4W<br/>1/4W</td><td></td></tr> <tr><td>R942 1-215-451-00 METAL 18K 1% 1/4W R943 1-215-441-00 METAL 6.8K 1% 1/4W R944 1-215-439-00 METAL 5.6K 1% 1/4W R945 1-215-445-00 METAL 5.6K 1% 1/4W R945 1-215-445-00 METAL 10K 1% 1/4W R946 1-215-445-00 METAL 10K 1% 1/4W</td><td>IC1714 8-7</td><td>759-145-58</td><td>IC UPC4558C</td><td></td><td>R940</td><td>1-215-429-00</td><td>METAL</td><td>2.2K</td><td>1<b>%</b><br/>1<b>%</b></td><td>1/4W</td><td></td></tr> <tr><td></td><td>101715 8-7<br/>101718 8-7</td><td>29-142-28<br/>259-145-58</td><td>IC UPC4558C</td><td></td><td>R943<br/>R944<br/>R945</td><td>1-215-441-00<br/>1-215-439-00<br/>1-215-445-00</td><td>) METAL<br/>) METAL<br/>) METAL</td><td>6.8K<br/>5.6K<br/>10K</td><td>1%<br/>1%<br/>1%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> | NSISTOR>                               |                          |                          |                      |        | D1708 8-719-911-19   D1008 ISS119 | D902 8-71<br>D1701 8-71<br>D1702 8-71 | 9-911-19<br>19-900-95<br>19-911-19 | DIODE 1SS119<br>DIODE VO9G<br>DIODE 1SS119<br>DIODE VO9G |  | 0902<br>0906<br>0907 | 8-729-900-89<br>8-729-119-78<br>8-729-119-78<br>8-729-900-89 | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR | 2SC2785-I<br>2SC2785-I | ife<br>ife |  |  | D1708 8-719-911-19   D1008   ISS119 | D1705 8-71 | 19-900-95 | DIODE VO9G<br>DIODE VO9G<br>DIODE VO9G | , | 0909<br>0910 | 8-729-119-78<br>8-729-119-78 | TRANSISTOR<br>TRANSISTOR | 2SC2785-I | HFE |  |  | DITIO   8-719-911-19   DIONE   ISSI19 | D1707 8-71 | 19-911-19 | DIODE IDDIII |  | 1 4777 |  | TRANSISTOR | 2SA1175-I | ife |  |  | 101713 8-719-911-19   DIONE ISSI19   8901 1-215-463-00 METAL   56K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8903 1-215-463-00 METAL   15K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8905 1-215-465-00 METAL   15K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8905 1-215-465-00 METAL   15K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8905 1-215-469-00 METAL   15K   12 1/4W     101718 8-719-911-19   DIONE ISSI19   8905 1-215-469-00 METAL   15K   12 1/4W     101718 8-719-911-19   DIONE ISSI19   8907 1-215-469-00 METAL   100K   12 1/4W     101720 8-719-109-50   DIONE RD2. DES-B1   8909 1-215-469-00 METAL   15K   12 1/4W     101721 8-719-109-50   DIONE RD2. DES-B1   8910 1-215-437-00 METAL   15K   12 1/4W     101722 8-719-109-50   DIONE RD2. DES-B1   8910 1-215-437-00 METAL   15K   12 1/4W     101723 8-719-109-50   DIONE RD2. DES-B1   8910 1-215-437-00 METAL   22K   12 1/4W     101724 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101725 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101726 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-710-10   ENDINORMORE   8921 1-215-439-00 METAL   22K   12 1/4W     101728 8-719-710-10   ENDINORMORE   8921 1-215-439-00 METAL   22K   12 1/4W     101728 8-719-710-10   ENDI | D1710 8-71 | 19-911-19 | DIODE 1SS119 |  |  | <re:< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td></re:<> | SISTOR> |  |  |  |  | Diff  8-719-911-19   DIODE ISSI19   R906   1-215-469-00   METAL   100K   12   1/44   1017   R917   R917-19   DIODE ISSI19   R907   1-215-469-00   METAL   100K   12   1/44   R919   1-215-499-00   METAL   150K   12   1/44   R919   1-215-499-00   METAL   16   R911   1-215-499-00   METAL   16   R911   1-215-499-00   METAL   17   1/44   R919   1- | D1712 8-71<br>D1713 8-71 | 19-911-19<br>19-911-19<br>19-911-19 | DIODE ISSI19<br>DIODE ISSI19<br>DIODE ISSI19 | , | R902<br>R903<br>R904 | 1-215-463-00<br>1-215-449-00<br>1-215-455-00 | METAL<br>METAL<br>METAL | 15K<br>27K | 1%<br>1%<br>1%<br>1% | 1/4W<br>1/4W<br>1/4W |  | R912   1-215-493-00   MBTAL   2AR   12   1/4W   R914   1-215-493-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R917   1-215-433-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   120   12   1/4W   R919   1-215-410-00   MBTAL   1/4W   R920   1-215-410-00   MBTAL   1/4W   R920   1-215-439-00   M | D1716 8-71<br>D1717 8-71 | 19-911-19<br>19-911-19 | DIODE 188119<br>DIODE 188119 |  | R906<br>R907 | 1-215-469-00<br>1-215-469-00 | METAL<br>METAL | 100K<br>100K | 1% | 1/4W |  | R912   1-215-493-00   MBTAL   2AR   12   1/4W   R914   1-215-493-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R917   1-215-433-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   120   12   1/4W   R919   1-215-410-00   MBTAL   1/4W   R920   1-215-410-00   MBTAL   1/4W   R920   1-215-439-00   M | D1721 8-7 | 19-109-50 | DIODE RD2.OES-B | 31<br>11 | R909 | 1-215-473-00 | METAL | 150K | 1%<br>1% | 1/4W |  | F901   A   F32 745-11   PUSE, GLASS   TUBE 3   154 /1259   R916   1-215-457-00   METAL   22K   17   1/4W   R917   1-215-453-00   METAL   120   17   1/4W   R918   D1722 8-71<br>D1723 8-71 |  |  | 11 | R912 | 1-215-453-00 | METAL | 22K | 1%<br>1% | 1/4W |  | R910   1-215-457-00 | Jense manage of Desiring matters of the 1880 of the |  |  |  | R914 | 1-215-453-00 | METAL | 22K | 1%<br>1% | 1/4W |  | C901 8-759-145-58   C UPC4558C   C UPC4558 | 1901 A 1-5 | 32-745-11 | RUSE, GLASS TOE | B 3 15A/125V | R917 | 1-215-453-00 | METAL | 22K | 1%<br>1% | 1/4W |  | Coron   Reference   Referenc |  |  |  |  | R920 | 1-215-399-00 | METAL | 120 | 1%<br>1% | 1/4W |  | Composition   Composition | IC902 8-7<br>IC903 8-7<br>IC904 8-7 | 52-033-68<br>59-701-56<br>59-701-65 | IC CXA1268P<br>IC NJM78MO5FA<br>IC NJM79MO5FA |  | R923<br>R924<br>R925 | 1-215-441-00<br>1-215-441-00<br>1-215-441-00 | METAL<br>METAL<br>METAL | 6.8K<br>6.8K<br>6.8K | 1%<br>1%<br>1%<br>1% | 1/4W<br>1/4W<br>1/4W |  | C1702 8-759-602-19   IC M5220L   R932 1-215-433-00   METAL   3.3K   1%   1/4W   IC1704 8-749-923-16   IC STK4278-L   R933 1-215-433-00   METAL   3.3K   1%   1/4W   IC1706 8-749-923-16   IC STK4278-L   R934 1-215-433-00   METAL   3.3K   1%   1/4W   IC1706 8-759-113-13   IC UPC1498H   R935 1-215-439-00   METAL   5.6K   1%   1/4W   IC1707 8-759-113-13   IC UPC1498H   R936 1-215-439-00   METAL   5.6K   1%   1/4W   IC1708 8-759-145-58   IC UPC4558C   R938 1-215-417-00   METAL   680   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R938 1-215-417-00   METAL   3.3K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-439-00   METAL   3.3K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   3.3K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-445-00   METAL   IC1714 | IC907 8-7<br>IC908 8-7<br>IC910 8-7 | 59-140-53<br>59-145-58<br>59-054-40 | IC UPD4053BC<br>IC UPC4558C<br>IC PA0036 |  | R927<br>R928<br>R929 | 1-215-463-00<br>1-215-461-00<br>1-215-433-00 | METAL<br>METAL<br>METAL | 56K<br>47K<br>3.3K |  | 1/4W<br>1/4W<br>1/4W |  | Result | IC1702 8-7 | 59-602-19 | IC M5220L |  | R931 | 1-215-433-00 | METAL |  |  | 1/4W |  | C1707 8-759-113-13   C UPC1498H   R937 1-215-439-00   METAL   S.6K 1% 1/4W     C1709 8-759-145-58   C UPC4558C   R938 1-215-417-00   METAL   S.6K 1% 1/4W     C1714 8-759-145-58   C UPC4558C   R939 1-215-433-00   METAL   S.6K 1% 1/4W     C1715 8-759-145-58   C UPC4558C   R940 1-215-429-00   METAL   S.6K 1% 1/4W     C1718 8-759-145-58   C UPC4558C   R940 1-215-441-00   METAL   S.6K 1% 1/4W     C1718 8-759-145-58   C UPC4558C   R942 1-215-441-00   METAL   S.6K 1% 1/4W     C1718 8-759-145-58   C UPC4558C   R942 1-215-441-00   METAL   S.6K 1% 1/4W     R943 1-215-441-00   METAL   S.6K 1% 1/4W     R944 1-215-439-00   METAL   S.6K 1% 1/4W     R945 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R947 1-215-445-00   METAL   S.6K 1% 1/4W     R948 1-215-445-00   METAL   S.6K 1% 1/4W     R949 1 | IC1704 8-7<br>IC1705 8-7 | 49-923-16<br>49-923-16 | IC STK4278-L<br>IC STK4278-L |  | R933<br>R934<br>R935 | 1-215-433-00<br>1-215-433-00<br>1-215-439-00 | METAL<br>METAL<br>METAL | 3.3K<br>3.3K<br>5.6K | 1%<br>1% | 1/4W<br>1/4W<br>1/4W |  | R941 1-215-441-00 METAL 6.8K 1% 1/4W  1C1715 8-759-145-58 IC UPC4558C  1C1718 8-759-145-58 IC UPC4558C  R942 1-215-451-00 METAL 18K 1% 1/4W  R943 1-215-441-00 METAL 6.8K 1% 1/4W  R944 1-215-439-00 METAL 5.6K 1% 1/4W  R945 1-215-445-00 METAL 10K 1% 1/4W  R946 1-215-445-00 METAL 10K 1% 1/4W | IC1708 8-7<br>IC1709 8-7 | 59-113-13<br>59-145-58 | 1C UPC1498H<br>1C UPC4558C |  | R937<br>R938 | 1-215-439-00<br>1-215-417-00 | METAL<br>METAL | 5.6K<br>680 | 1% | 1/4W<br>1/4W |  | R942 1-215-451-00 METAL 18K 1% 1/4W R943 1-215-441-00 METAL 6.8K 1% 1/4W R944 1-215-439-00 METAL 5.6K 1% 1/4W R945 1-215-445-00 METAL 5.6K 1% 1/4W R945 1-215-445-00 METAL 10K 1% 1/4W R946 1-215-445-00 METAL 10K 1% 1/4W | IC1714 8-7 | 759-145-58 | IC UPC4558C |  | R940 | 1-215-429-00 | METAL | 2.2K | 1 <b>%</b><br>1 <b>%</b> | 1/4W |  |  | 101715 8-7<br>101718 8-7 | 29-142-28<br>259-145-58 | IC UPC4558C |  | R943<br>R944<br>R945 | 1-215-441-00<br>1-215-439-00<br>1-215-445-00 | ) METAL<br>) METAL<br>) METAL | 6.8K<br>5.6K<br>10K | 1%<br>1%<br>1% | 1/4W<br>1/4W<br>1/4W |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NSISTOR>   |   |                                     |  |              |                              |  
   
  |  |                          |                          |                      |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D1708 8-719-911-19   D1008 ISS119  | D902 8-71<br>D1701 8-71<br>D1702 8-71               | 9-911-19<br>19-900-95<br>19-911-19  | DIODE 1SS119<br>DIODE VO9G<br>DIODE 1SS119<br>DIODE VO9G |              | 0902<br>0906<br>0907         | 8-729-900-89<br>8-729-119-78<br>8-729-119-78<br>8-729-900-89   
   
  | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR | 2SC2785-I<br>2SC2785-I   | ife<br>ife               |                      |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D1708 8-719-911-19   D1008   ISS119  | D1705 8-71  | 19-900-95                           | DIODE VO9G<br>DIODE VO9G<br>DIODE VO9G                   | ,            | 0909<br>0910                 | 8-729-119-78<br>8-729-119-78   
   
  | TRANSISTOR<br>TRANSISTOR               | 2SC2785-I                | HFE                      |                      |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DITIO   8-719-911-19   DIONE   ISSI19  | D1707 8-71  | 19-911-19                           | DIODE IDDIII   |              | 1 4777                       |  
   
  | TRANSISTOR                             | 2SA1175-I                | ife                      |                      |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 101713 8-719-911-19   DIONE ISSI19   8901 1-215-463-00 METAL   56K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8903 1-215-463-00 METAL   15K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8905 1-215-465-00 METAL   15K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8905 1-215-465-00 METAL   15K   12 1/4W     101716 8-719-911-19   DIONE ISSI19   8905 1-215-469-00 METAL   15K   12 1/4W     101718 8-719-911-19   DIONE ISSI19   8905 1-215-469-00 METAL   15K   12 1/4W     101718 8-719-911-19   DIONE ISSI19   8907 1-215-469-00 METAL   100K   12 1/4W     101720 8-719-109-50   DIONE RD2. DES-B1   8909 1-215-469-00 METAL   15K   12 1/4W     101721 8-719-109-50   DIONE RD2. DES-B1   8910 1-215-437-00 METAL   15K   12 1/4W     101722 8-719-109-50   DIONE RD2. DES-B1   8910 1-215-437-00 METAL   15K   12 1/4W     101723 8-719-109-50   DIONE RD2. DES-B1   8910 1-215-437-00 METAL   22K   12 1/4W     101724 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101725 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101726 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-109-50   DIONE RD2. DES-B1   8911 1-215-437-00 METAL   22K   12 1/4W     101728 8-719-710-10   ENDINORMORE   8921 1-215-439-00 METAL   22K   12 1/4W     101728 8-719-710-10   ENDINORMORE   8921 1-215-439-00 METAL   22K   12 1/4W     101728 8-719-710-10   ENDI | D1710 8-71  | 19-911-19                           | DIODE 1SS119   |              |                              | <re:< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td></re:<>   
   
  | SISTOR>                                |                          |                          |                      |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Diff  8-719-911-19   DIODE ISSI19   R906   1-215-469-00   METAL   100K   12   1/44   1017   R917   R917-19   DIODE ISSI19   R907   1-215-469-00   METAL   100K   12   1/44   R919   1-215-499-00   METAL   150K   12   1/44   R919   1-215-499-00   METAL   16   R911   1-215-499-00   METAL   16   R911   1-215-499-00   METAL   17   1/44   R919   1- | D1712 8-71<br>D1713 8-71                            | 19-911-19<br>19-911-19<br>19-911-19 | DIODE ISSI19<br>DIODE ISSI19<br>DIODE ISSI19             | ,            | R902<br>R903<br>R904         | 1-215-463-00<br>1-215-449-00<br>1-215-455-00  
   
   | METAL<br>METAL<br>METAL                | 15K<br>27K               | 1%<br>1%<br>1%<br>1%     | 1/4W<br>1/4W<br>1/4W |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  |  |            |           |              |  |  |  |         |  |  |  |  | | | | | | | | | | | | | | | | | | |
  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |  |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  
   |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   
   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R912   1-215-493-00   MBTAL   2AR   12   1/4W   R914   1-215-493-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R917   1-215-433-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   120   12   1/4W   R919   1-215-410-00   MBTAL   1/4W   R920   1-215-410-00   MBTAL   1/4W   R920   1-215-439-00   M | D1716 8-71<br>D1717 8-71                            | 19-911-19<br>19-911-19              | DIODE 188119<br>DIODE 188119                             |              | R906<br>R907                 | 1-215-469-00<br>1-215-469-00  
   
   | METAL<br>METAL                         | 100K<br>100K             | 1%                       | 1/4W                 |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  |  |            |           |              |  |  |  |         |  |  |  |  | | | | | | | | | | | |
  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |  |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  
   |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |  |                          |                        |                              |  |         
            |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R912   1-215-493-00   MBTAL   2AR   12   1/4W   R914   1-215-493-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R915   1-215-413-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R916   1-215-433-00   MBTAL   2AR   12   1/4W   R917   1-215-433-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   2AR   12   1/4W   R919   1-215-399-00   MBTAL   120   12   1/4W   R919   1-215-410-00   MBTAL   1/4W   R920   1-215-410-00   MBTAL   1/4W   R920   1-215-439-00   M | D1721 8-7   | 19-109-50                           | DIODE RD2.OES-B  | 31<br>11     | R909                         | 1-215-473-00  
   
   | METAL                                  | 150K                     | 1%<br>1%                 | 1/4W                 |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  |  |            |           |              |  |  |  |         |  |  |  |  | | | | | | | | | | | |
  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |  |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  
   |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |  |                          |                        |                              |  |         
            |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F901   A   F32 745-11   PUSE, GLASS   TUBE 3   154 /1259   R916   1-215-457-00   METAL   22K   17   1/4W   R917   1-215-453-00   METAL   120   17   1/4W   R918   | D1722 8-71<br>D1723 8-71                            |                                     |  | 11           | R912                         | 1-215-453-00  
   
   | METAL                                  | 22K                      | 1%<br>1%                 | 1/4W                 |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  |  |            |           |              |  |  |  |         |  |  |  |  | | | | | | | | | | | | | | | | | | | |
  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |  |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  
   |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                         
|                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R910   1-215-457-00  | Jense manage of Desiring matters of the 1880 of the |                                     |  |              | R914                         | 1-215-453-00   
   
  | METAL                                  | 22K                      | 1%<br>1%                 | 1/4W                 |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C901 8-759-145-58   C UPC4558C   C UPC4558 | 1901 A 1-5  | 32-745-11                           | RUSE, GLASS TOE  | B 3 15A/125V | R917                         | 1-215-453-00   
   
  | METAL                                  | 22K                      | 1%<br>1%                 | 1/4W                 |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  |  |            |           |              |  |  |  |         |  |  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | |
   |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |  |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |   
  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |              
 |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Coron   Reference   Referenc |   |                                     |  |              | R920                         | 1-215-399-00   
   
  | METAL                                  | 120                      | 1%<br>1%                 | 1/4W                 |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  |  |            |           |              |  |  |  |         |  |  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |  |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |   
  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |           
 |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Composition    | IC902 8-7<br>IC903 8-7<br>IC904 8-7                 | 52-033-68<br>59-701-56<br>59-701-65 | IC CXA1268P<br>IC NJM78MO5FA<br>IC NJM79MO5FA            |              | R923<br>R924<br>R925         | 1-215-441-00<br>1-215-441-00<br>1-215-441-00   
   
  | METAL<br>METAL<br>METAL                | 6.8K<br>6.8K<br>6.8K     | 1%<br>1%<br>1%<br>1%     | 1/4W<br>1/4W<br>1/4W |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C1702 8-759-602-19   IC M5220L   R932 1-215-433-00   METAL   3.3K   1%   1/4W   IC1704 8-749-923-16   IC STK4278-L   R933 1-215-433-00   METAL   3.3K   1%   1/4W   IC1706 8-749-923-16   IC STK4278-L   R934 1-215-433-00   METAL   3.3K   1%   1/4W   IC1706 8-759-113-13   IC UPC1498H   R935 1-215-439-00   METAL   5.6K   1%   1/4W   IC1707 8-759-113-13   IC UPC1498H   R936 1-215-439-00   METAL   5.6K   1%   1/4W   IC1708 8-759-145-58   IC UPC4558C   R938 1-215-417-00   METAL   680   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R938 1-215-417-00   METAL   3.3K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-439-00   METAL   3.3K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   3.3K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   6.8K   1%   1/4W   IC1718 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-441-00   METAL   IC1714 8-759-145-58   IC UPC4558C   R940 1-215-445-00   METAL   IC1714  | IC907 8-7<br>IC908 8-7<br>IC910 8-7                 | 59-140-53<br>59-145-58<br>59-054-40 | IC UPD4053BC<br>IC UPC4558C<br>IC PA0036                 |              | R927<br>R928<br>R929         | 1-215-463-00<br>1-215-461-00<br>1-215-433-00   
   
  | METAL<br>METAL<br>METAL                | 56K<br>47K<br>3.3K       |                          | 1/4W<br>1/4W<br>1/4W |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |  |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |   
  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Result   | IC1702 8-7  | 59-602-19                           | IC M5220L  |              | R931                         | 1-215-433-00   
   
  | METAL                                  |                          |                          | 1/4W                 |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C1707 8-759-113-13   C UPC1498H   R937 1-215-439-00   METAL   S.6K 1% 1/4W     C1709 8-759-145-58   C UPC4558C   R938 1-215-417-00   METAL   S.6K 1% 1/4W     C1714 8-759-145-58   C UPC4558C   R939 1-215-433-00   METAL   S.6K 1% 1/4W     C1715 8-759-145-58   C UPC4558C   R940 1-215-429-00   METAL   S.6K 1% 1/4W     C1718 8-759-145-58   C UPC4558C   R940 1-215-441-00   METAL   S.6K 1% 1/4W     C1718 8-759-145-58   C UPC4558C   R942 1-215-441-00   METAL   S.6K 1% 1/4W     C1718 8-759-145-58   C UPC4558C   R942 1-215-441-00   METAL   S.6K 1% 1/4W     R943 1-215-441-00   METAL   S.6K 1% 1/4W     R944 1-215-439-00   METAL   S.6K 1% 1/4W     R945 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R946 1-215-445-00   METAL   S.6K 1% 1/4W     R947 1-215-445-00   METAL   S.6K 1% 1/4W     R948 1-215-445-00   METAL   S.6K 1% 1/4W     R949 1 | IC1704 8-7<br>IC1705 8-7                            | 49-923-16<br>49-923-16              | IC STK4278-L<br>IC STK4278-L                             |              | R933<br>R934<br>R935         | 1-215-433-00<br>1-215-433-00<br>1-215-439-00   
   
  | METAL<br>METAL<br>METAL                | 3.3K<br>3.3K<br>5.6K     | 1%<br>1%                 | 1/4W<br>1/4W<br>1/4W |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R941 1-215-441-00 METAL 6.8K 1% 1/4W  1C1715 8-759-145-58 IC UPC4558C  1C1718 8-759-145-58 IC UPC4558C  R942 1-215-451-00 METAL 18K 1% 1/4W  R943 1-215-441-00 METAL 6.8K 1% 1/4W  R944 1-215-439-00 METAL 5.6K 1% 1/4W  R945 1-215-445-00 METAL 10K 1% 1/4W  R946 1-215-445-00 METAL 10K 1% 1/4W  | IC1708 8-7<br>IC1709 8-7                            | 59-113-13<br>59-145-58              | 1C UPC1498H<br>1C UPC4558C                               |              | R937<br>R938                 | 1-215-439-00<br>1-215-417-00   
   
  | METAL<br>METAL                         | 5.6K<br>680              | 1%                       | 1/4W<br>1/4W         |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R942 1-215-451-00 METAL 18K 1% 1/4W R943 1-215-441-00 METAL 6.8K 1% 1/4W R944 1-215-439-00 METAL 5.6K 1% 1/4W R945 1-215-445-00 METAL 5.6K 1% 1/4W R945 1-215-445-00 METAL 10K 1% 1/4W R946 1-215-445-00 METAL 10K 1% 1/4W   | IC1714 8-7  | 759-145-58                          | IC UPC4558C  |              | R940                         | 1-215-429-00   
   
  | METAL                                  | 2.2K                     | 1 <b>%</b><br>1 <b>%</b> | 1/4W                 |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 101715 8-7<br>101718 8-7                            | 29-142-28<br>259-145-58             | IC UPC4558C  |              | R943<br>R944<br>R945         | 1-215-441-00<br>1-215-439-00<br>1-215-445-00   
   
  | ) METAL<br>) METAL<br>) METAL          | 6.8K<br>5.6K<br>10K      | 1%<br>1%<br>1%           | 1/4W<br>1/4W<br>1/4W |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |   |                                     |  |              |                              |  
   
  |  |                          |                          |                      |        |                                   |                                       |                                    |  |  |                      |  |  |                        |            |  |  |                                     |            |           |  |   |              |                              |                          |           |     |  |  |                                       |            |           |              |  |        |  |            |           |     |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |            |           |              |  |  |  |         |  |  |  |  |  |                          |                                     |  |   |                      |  |                         |            |                      |                      |  |  |                          |                        |                              |  |              |                              |                |              |    |      |  |  |           |           |                 |          |      |              |       |      |          |      |  |   
            |                          |  |  |    |      |              |       |     |          |      |  |                     |   |  |  |  |      |              |       |     |          |      |  |  |            |           |                 |              |      |              |       |     |          |      |  |  |  |  |  |  |      |              |       |     |          |      |  |   |                                     |                                     |   |  |                      |  |                         |                      |                      |                      |  |   |                                     |                                     |  |  |                      |  |                         |                    |  |                      |  |        |            |           |           |  |      |              |       |  |  |      |  |   
  |                          |                        |                              |  |                      |  |                         |                      |          |                      |  |   |                          |                        |                            |  |              |                              |                |             |    |              |  |  |            |            |             |  |      |              |       |      |                          |      |  |  |                          |                         |             |  |                      |  |                               |                     |                |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |



  REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
no.40	1 215 447 00	METAL					D1714	1 240 411 11	CARDON	220	EØ.	1 /451	
R951	1-215-447-00 1-215-439-00 1-215-429-00 1-215-429-00 1-215-429-00	METAL METAL METAL METAL						1-249-411-11 1-249-411-11 1-215-886-11 1-249-411-11 1-249-417-11 1-214-792-00		330 100 330 1K	5% 5%% 5%% 5%% 5%% 1%	1/4W 1/4W 2W 1/4W 1/4W	F
R953 R954 R955 R956 R957	1-215-439-00 1-215-439-00 1-215-435-00 1-215-437-00 1-215-441-00	METAL METAL METAL METAL	5.6K 5.6K 3.9K 4.7K 6.8K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W		R1720 R1721 R1722	1-214-792-00 1-249-411-11 1-249-417-11 1-249-411-11 1-249-417-11 1-215-886-11	METAL  CARBON  CARBON  CARBON	330 1K 330	5% 5%	1/2W 1/4W 1/4W 1/4W	
R960 R961 R962		METAL METAL METAL METAL METAL	4.7K 5.6K 5.6K 5.6K 6.8K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1724 R1724 R1725 R1726 R1727	1-249-417-11 1-215-886-11 1-215-886-11 1-215-886-11 1-214-792-00 1-214-792-00 1-214-792-00	METAL OXIDE METAL OXIDE METAL OXIDE METAL		5% 5% 5% 1% 1%	1/4W 2W 2W 2W 1/2W	F F
R963 R964 R965 R966 R967	1-215-441-00 1-215-441-00 1-215-909-11 1-215-469-00 1-215-421-00	METAL METAL METAL OXIDE METAL METAL	6.8K 6.8K 47 100K 1K	1% 1% 5% 1% 1%	1/4W		R1729	1-249-405-11 1-249-417-11 1-249-405-11	METAL  CARBON CARBON CARBON	1 100 1K 100 100		1/2W 1/2W 1/4W 1/4W 1/4W	
		METAL CARBON METAL OXIDE CARBON			1 / / [i]	F	D172/	1-240-405-11	CARBON CARBON CARBON	100 100 100 3.3K 3.3K 3.3K 3.3K	りる	1/4W 1/4W 1/4W 1/4W	
R973 R974 R975	1-249-431-11 1-215-399-00 1-215-399-00 1-215-399-00	CARBON METAL METAL METAL		5% 1% 1% 1%	1/4W		R1739	1-249-423-11	CARBON CARBON			1/4W 1/4W 1/4W 1/4W 1/4W	
R977 R978 R979 R980	1-215-399-00	METAL METAL		1% 1% 1% 1% 1%	1/4W 1/4W 1/4W		R1742 R1743 R1744	1-249-423-11 1-249-417-11 1-249-411-11		1K 3.3K 3.3K 1K 330		1/4W 1/4W 1/4W	
R981 R982 R983	1-215-399-00 1-249-431-11 1-249-431-11				1/4W 1/4W 1/4W		R1746 R1747 R1748 R1749	1-214-792-00 1-215-886-11 1-215-421-00 1-215-421-00	METAL OXIDE METAL METAL METAL	100 1 100 1K 1K	1% 5% 1%	1/2W 2W 1/4W 1/4W	F
R984 R985 R986 R987	1-214-804-11 1-215-421-00	METAL METAL METAL		5% 1% 1% 1% 1%	1/2W 1/2W 1/2W 1/4W		R1750 R1751 R1752 R1753	1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-214-792-00 1-215-469-00 1-215-437-00	METAL METAL METAL METAL METAL	1K 1K 1K 1K	1% 1% 1%	1/4W 1/4W 1/4W 1/4W	
R988 R989 R990 R991 R992	1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00	METAL METAL METAL METAL METAL	1 K 1 K 1 K 1 K 1 K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1754 R1755 R1756 R1757 R1758	1-215-437-00	METAL METAL METAL METAL METAL	1 100K 4.7K 4.7K 4.7K		1/2W 1/4W 1/4W 1/4W	
R993 R994 R995 R997 R998	1-249-429-11 1-249-429-11 1-215-457-00 1-215-463-00 1-215-409-00	CARBON CARBON METAL METAL METAL	10K 10K 33K 56K 330	5% 5% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1759 R1760 R1761 R1762	1-215-437-00 1-249-405-11 1-249-427-11 1-249-419-11 1-215-445-00	CARBON CARBON CARBON METAL	100 6.8K 1.5K 10K	5% 5% 1%	1/4W 1/4W 1/4W 1/4W	
R999 R1701 R1702 R1703	1-215-455-00 1-249-411-11 1-249-427-11 1-249-427-11	METAL CARBON CARBON CARBON	27K 330 6-8K 6.8K	1% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R1763 R1764 R1765 R1766	1-249-427-11 1-249-419-11 1-249-419-11 1-249-427-11	CARBON CARBON CARBON CARBON	6.8K 1.5K 1.5K 6.8K	5% 5%	1/4W 1/4W 1/4W 1/4W	
R1704 R1705 R1706	1-249-411-11 1-249-411-11 1-249-427-11	CARBON CARBON CARBON	330 330 6.8K	5% 5%	1/4W 1/4W 1/4W		R1767 R1768 R1769	1-249-427-11 1-249-439-11 1-215-445-00	CARBON CARBON METAL	6.8K 10K	5% 5% 5% 5% 1%	1/4W 1/4W 1/4W	
R1707 R1708 R1709 R1710	1-249-411-11 1-249-427-11 1-249-427-11 1-249-411-11	CARBON CARBON CARBON CARBON	330 6.8K 6.8K	5% 5% 5%	1/4W 1/4W 1/4W		R1770 R1771 R1772 R1773 R1774	1-249-405-11 1-249-405-11 1-215-429-00 1-215-429-00 1-215-421-00	CARBON CARBON METAL METAL METAL	100 100 2.2K 2.2K 1K	5% 5% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1711 R1712	1-249-411-11 1-249-427-11 1-215-886-11	CARBON CARBON METAL OXIDE	330 6.8K 100	5% 5% 5% 5%	1/4W 1/4W 2W	F	R1775	1-249-429-11 1-215-421-00	CARBON METAL	10K 1K	5% 1%	1/4W 1/4W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R1777 R1778 R1779 R1780 R1781	1-249-423-11 1-215-421-00 1-215-898-11 1-214-804-11 1-214-804-11		3.3K 1K 10K 3.3 3.3	5% 1% 5% 1%	1/4W		R1861	1-215-453-00 1-215-453-00 1-215-397-00 1-215-437-00 1-215-453-00 1-215-453-00	METAL		1%	1/4W 1/4W 1/4W 1/4W 1/4W	) )
R1783 R1784 R1785	1-215-898-11 1-214-804-11 1-214-804-11 1-215-898-11 1-214-804-11	METAL METAL METAL OXIDE METAL	10K 3.3 3.3 10K 3.3	5% 1% 1% 1%	2W 1/2W 1/2W 2W 1/2W	F .	R1866 R1867 R1868 R1869 R1870	1-215-453-00 1-215-453-00 1-215-439-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	22K 4.7K 5.6K 10K 10K 10K		1/4W 1/4W 1/4W 1/4W 1/4W	
R1788 R1789 R1790 R1791	1-214-804-11 1-249-433-11 1-249-441-11 1-249-433-11 1-249-429-11	CARBON CARBON CARBON CARBON	3.3 22K 100K 22K 10K	1% 5% 5% 5% 5%	1/2W 1/4W 1/4W 1/4W 1/4W		R1871 R1872 R1873 R1874 R1875	1-215-437-00 1-215-437-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00	METAL METAL METAL METAL METAL	10K 4.7K 4.7K 4.7K 4.7K 4.7K		1/4W 1/4W 1/4W 1/4W 1/4W	
R1793 R1794 R1795 R1796	1-215-445-00 1-249-405-11 1-215-429-00 1-249-433-11 1-249-405-11	CARBON METAL CARBON CARBON	22K 100	1% 5% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1876 R1877 R1878 R1879 R1880	1-215-437-00 1-215-437-00 1-215-475-00 1-215-475-00 1-215-475-00	METAL METAL METAL METAL METAL	4.7K 4.7K 180K 180K 180K 47K		1/4W 1/4W 1/4W 1/4W	
R1798 R1800 R1801 R1802	1-249-429-11 1-249-423-11 1-249-405-11 1-215-439-00 1-215-439-00	CARBON CARBON CARBON METAL METAL	10K 3.3K 100 5.6K 5.6K	5% 5% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1882 R1883 R1884 R1885	1-215-437-00 1-215-475-00 1-215-475-00 1-215-475-00 1-215-461-00 1-215-445-00 1-215-453-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL METAL	10K 22K 100 10K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W	
R1805 R1806 R1807 R1808	1-215-439-00 1-215-439-00 1-249-405-11 1-249-405-11 1-214-792-00	METAL METAL CARBON CARBON METAL	5.6K 100 100	1% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/2W		R1887 R1888 R1889 R1890	1-215-397-00 1-215-445-00 1-215-445-00 1-215-461-00 1-215-457-00 1-215-457-00 1-215-443-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL		1%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	
R1810 R1811 R1812 R1813	1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00	METAL METAL METAL METAL METAL	1 1 1 1	1% 1% 1% 1% 1%	1/2W 1/2W 1/2W 1/2W 1/2W		R1892 R1894 R1895 R1896	1-215-445-00 1-215-429-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	10K 2.2K 10K 10K 15K		1/4W 1/4W 1/4W 1/4W 1/4W	
R1815 R1816 R1817 R1818	1-249-431-11 1-247-885-00 1-249-431-11 1-247-885-00 1-249-405-11	CARBON CARBON CARBON CARBON CARBON	180K 15K 180K 100	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R1898 R1899 R1900 R1901	1-215-445-00 1-215-421-00 1-215-429-00 1-215-449-00 1-215-446-00	METAL METAL METAL METAL METAL	10K 1K 2.2K 15K 10K		1/4W 1/4W 1/4W 1/4W 1/4W	
R1820 R1821 R1822 R1823	1-215-437-00 1-215-437-00 1-215-437-00 1-215-445-00 1-215-445-00 1-215-433-00	METAL METAL METAL METAL METAL	4.7K 4.7K 10K 10K 3.3K	1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1903 R1904 R1905 R1906 R1907	1-215-445-00 1-215-445-00 1-215-445-00 1-215-429-00 1-215-445-00	METAL METAL METAL METAL METAL				
R1825 R1826 R1827 R1828	1-215-433-00 1-215-433-00 1-215-445-00 1-215-445-00 1-249-434-11	METAL METAL METAL METAL CARBON	3.3K 3.3K 10K 10K	1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1908 R1909 R1910 R1911 R1916	1-215-445-00 1-215-445-00 1-215-445-00 1-215-453-00 1-215-423-00	METAL METAL METAL METAL	10K 10K 10K 10K 22K 1.2K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1829 R1830 R1831 R1832 R1833	1-249-434-11 1-249-405-11 1-215-471-00 1-215-471-00	CARBON CARBON METAL METAL	27K 100 120K 120K	1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1920 R1921 R1922 R1924 R1925	1-215-425-00 1-215-445-00 1-215-445-00 1-215-429-00 1-215-429-00	METAL METAL METAL METAL	22K 10K 10K 2.2K 2.2K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1835 R1836 R1837 R1838	1-215-437-00 1-215-437-00 1-215-421-00 1-249-431-11	METAL METAL METAL CARBON CARBON	4.7K 4.7K 1K 15K	1% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1926 R1927 R1928 R1929 R1930	1-215-429-00 1-215-445-00 1-215-421-00 1-215-445-00	METAL METAL METAL METAL	2.2K 10K 1K 10K 10K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1839 R1858 R1859 R1860	1-249-431-11 1-215-445-00 1-215-445-00 1-215-397-00	METAL METAL	10K 10K 10K 100	5% 1% 1% 1%	1/4W 1/4W 1/4W		R1931	1-215-397-00 1-215-397-00 1-215-453-00	METAL	100 100 22K	1% 1%	1/4W 1/4W 1/4W	



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
R1933 1-215-453-00 R1934 1-215-429-00 R1937 1-215-445-00	METAL 2.2K 1%	1/4W 1/4W 1/4W		RES, ADJ, CARBON 10K RES, ADJ, CARBON 22K	
	NAME OF THE PROPERTY OF THE PR		RV963 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV901 1-241-631-11 RV902 1-241-631-11 RV903 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K		RV966 1-241-631-11 RV967 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV904 1-241-631-11 RV905 1-241-631-11 RV906 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K		RV968 1-241-631-11 RV969 1-241-631-11 RV970 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV907 1-241-631-11 RV908 1-241-631-11 RV909 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K		RV972 1-241-631-11 RV973 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV910 1-241-631-11 RV911 1-241-627-11 RV912 1-241-631-11	RES, ADJ, CARBON 1K RES, ADJ, CARBON 2K		RV976 1-241-631-11 RV976 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV913 1-238-023-11 RV914 1-241-630-11 RV915 1-241-630-11	RES, ADJ, CARBON 470K RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K		RV977 1-241-631-11 RV978 1-241-631-11 RV979 1-241-631-11 RV980 1-238-019-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	•
RV916 1-241-631-11 RV917 1-241-631-11 RV918 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K		RV981 1-241-631-11 RV982 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV919 1-241-631-11 RV920 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K		*************	**********	*******
RV921 1-241-631-11 RV922 1-241-631-11 RV923 1-241-631-11 RV924 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K		*1-644-278-11	DS BOARD *******	
RV925 1-241-631-11 RV926 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K		C1745 1-126-101-11	PACITUR> ELECT 100MF	20% 16V
RV927 1-241-631-11 RV928 1-241-630-11 RV929 1-241-631-11 RV930 1-241-630-11	RBS, ADJ, CARBON 22K RBS, ADJ, CARBON 10K RBS, ADJ, CARBON 22K RBS, ADJ, CARBON 10K		*1-644-278-11 <can 1-124-916-11<="" 1-126-101-11="" c1745="" c1746="" c1747="" c1748="" c1750="" td=""><td>BLECT 100MF BLECT 100MF BLECT 100MF BLECT 22MF</td><td>20% 16V 20% 16V 20% 16V 20% 16V 20% 25V</td></can>	BLECT 100MF BLECT 100MF BLECT 100MF BLECT 22MF	20% 16V 20% 16V 20% 16V 20% 16V 20% 25V
RV931 1-241-631-11 RV932 1-241-631-11 RV933 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K		C1751 1-126-101-11 C1752 1-124-916-11 C1753 1-124-916-11 C1851 1-102-074-00	BLECT 100MF BLECT 22MF ELECT 22MF CERAMIC 0.001MF	
RV934 1-241-631-11 RV935 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K		C1851 1-102-074-00	CERAMIC 0.001MF	10% 50v
RV937 1-241-630-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K		1	NNECTOR>	
RV938 1-241-630-11 RV939 1-241-630-11 RV940 1-241-631-11	RES, ADJ, CARBON 10K			CONNECTOR (BOARD TO BOA	1KD) 12P
RV941 1-241-631-11 RV942 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	•	<1C		
RV943 1-241-631-11 RV944 1-241-631-11 RV945 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K		101712 8-759-602-19 101713 8-759-111-69	IC M5220L	
RV946 1-241-631-11 RV947 1-241-631-11	RES, ADJ, CARBON 22K			SISTOR>	
RV948 1-241-631-11 RV949 1-241-631-11 RV950 1-241-631-11	RES, ADJ, CARBON 22K		R1840	METAL 3.3K 1% METAL 68K 1%	1/4W 1/4W 1/4W 1/4W
RV951 1-241-631-11 RV952 1-241-631-11 RV953 1-241-631-11	RES, ADJ, CARBON 22K		R1844 1-215-455-00	METAL 27K 1%	1/4W 1/4W
RV954 1-241-631-11 RV956 1-241-631-11	RES, ADJ, CARBON 22K		R1846 1-215-421-00 R1850 1-215-461-00	METAL 1K 1% METAL 47K 1%	1/4W 1/4W 1/4W 1/4W
RV958 1-241-631-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K		R1851 1-215-461-00 R1852 1-215-429-00 R1853 1-215-397-00	METAL 2.2K 1%	1/4W 1/4W

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

DS H1 H2

REF.NO. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			1	REMARK
R1854 1-215-429-00 R1855 1-215-397-00 R1940 1-215-445-00 R1941 1-215-433-00 R1942 1-215-421-00	METAL METAL METAL METAL METAL	10K 3.3K	12	1/4W 1/4W 1/4W 1/4W 1/4W			<b>*</b> 1-6 <b>43</b> -592-11	H2 BOARD				
R1943 1-215-465-00	METAL		1%	1/4W			<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td></cap<>	ACITOR>				
R1944 1-215-421-00 R1945 1-215-455-00	METAL METAL METAL	1K 27K	1% 1% 1%	1/4W 1/4W 1/4W		C1651 C1655	1-124-477-11 1-124-927-11	ELECT ELECT	47MF 4.7MF		20% 20%	16V 50V
<var< td=""><td>IABLE RESISTOR</td><td><b>{</b>&gt;</td><td></td><td></td><td></td><td></td><td><dio< td=""><td>DE&gt;</td><td></td><td></td><td></td><td></td></dio<></td></var<>	IABLE RESISTOR	<b>{</b> >					<dio< td=""><td>DE&gt;</td><td></td><td></td><td></td><td></td></dio<>	DE>				
RV983 1-241-630-11 RV984 1-241-630-11	RES, ADJ, CAF	RBON 10K	(	*****		D1652 D1653 D1654	8-719-908-03 8-719-908-03 8-719-108-12 8-719-108-12 8-719-108-12	DIODE GPO8D DIODE RD9.1E- DIODE RD9.1E-	-₩			
*1-643-591-11	H1 BOARD					D1659	8-719-911-19 8-719-110-88		D2			
4-033-777-01 *4-374-987-01 4-381-686-01	HOLDER, LED	LIGHT (	GUIDE			D1661 D1662	8-719-110-88 8-719-110-88 8-719-110-88	DIODE RD39ES	-B2 -B2			
<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td>0 0 0 0</td><td><con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td></con<></td></cap<>	ACITOR>					0 0 0 0	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td></con<>	NECTOR>				
C1601 1-124-907-11 C1602 1-124-907-11 C1603 1-124-907-11 C1604 1-124-261-00	ELECT ELECT ELECT	10MF 10MF 10MF 10MF		20% 20% 20% 20%	50V 50V 50V 50V	H25 H26 H28	*1-564-519-41 *1-564-517-41 *1-564-519-11 *1-564-518-11 *1-564-517-11	PLUG, CONNEC PLUG, CONNEC PLUG. CONNEC	TOR 2P TOR 4P TOR 3P		9	
<dic< td=""><td>1065</td><td></td><td></td><td></td><td></td><td>H216</td><td>*1-564-525-11 *1-564-518-11</td><td>PLUG, CONNEC</td><td>TOR 10P</td><td></td><td></td><td></td></dic<>	1065					H216	*1-564-525-11 *1-564-518-11	PLUG, CONNEC	TOR 10P			
D1601 8-719-812-41						11443	+1 304 316 11	r bod, commbc	ion y			
D1602 8-719-812-41							<jac< td=""><td>CK&gt;</td><td></td><td></td><td></td><td></td></jac<>	CK>				
<con< td=""><td>INECTOR&gt;</td><td></td><td></td><td></td><td></td><td>J1651</td><td>1-695-817-11</td><td>JACK BLOCK,</td><td>PIN 3P</td><td></td><td></td><td></td></con<>	INECTOR>					J1651	1-695-817-11	JACK BLOCK,	PIN 3P			
H11 *1-564-526-11	PLUG, CONNECT	TOR 11P				İ	<tra< td=""><td>ANSISTOR&gt;</td><td></td><td></td><td></td><td></td></tra<>	ANSISTOR>				
H15 *1-564-517-41 <ic></ic>		iun Zr				Q1652	8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2	SC2785-	HFE		
IC1601 8-741-148-33	IC SBX1483-5	9					∠n po	SISTOR>				
<pre>/pre-</pre>	SISTOR>					R1651	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1601 1-249-430-11 R1602 1-249-425-11 R1603 1-249-421-11 R1604 1-249-419-11		12K 4.7K 2.2K 1.5K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R1652 R1653 R1654 R1655	1-249-421-11 1-249-425-11 1-249-430-11 1-249-417-11	CARBON CARBON CARBON CARBON	2.2K 4.7K 12K 1K	5%% 5%% 5%% 5%%	1/4W 1/4W 1/4W 1/4W	
R1606 1-249-405-11	CARBON	100		1/4W		R1656 R1657	1-249-417-11 1-249-436-11	CARBON CARBON	1K 39K	5% 5%	1/4W 1/4W	
R1607 1-249-405-11 R1608 1-249-411-11 R1609 1-249-411-11		100 330 330	5% 5% 5%	1/4W 1/4W 1/4W		R1658 R1659	1-249-437-11 1-249-437-11	CARBON CARBON	47K 47K	5% 5%	1/4W 1/4W	
<swi< td=""><td>ITCH&gt;</td><td></td><td></td><td></td><td></td><td></td><td><rei< td=""><td>LAY&gt;</td><td></td><td></td><td></td><td></td></rei<></td></swi<>	ITCH>						<rei< td=""><td>LAY&gt;</td><td></td><td></td><td></td><td></td></rei<>	LAY>				
\$1601	SWITCH, TACT SWITCH, TACT SWITCH, TACT	IL IL				RY1651 RY1652	1 1-515-586-11 2 1-515-586-11	RELAY (DS-2)				
\$1604 1-554-303-21 \$1605 1-554-303-21	SWITCH, TACT SWITCH, TACT					S1651		ITCH>	11			
S1606ALI-571-731-21 SWITCH, TACTIL (POWER)							1-554-303-21 1-554-303-21	SWITCH, TACT	IL IL			

H2 ZR ZG ZB N

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. The components identified by shading and mark A are critical for safety.

Replace only with part number specified

_								2000		AND CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T			
	REF.NO.	PART NO.	DESCRIPT	TION			REMARK	REF.NO	. PART NO.	DESCRIPTION			REMARK
	S1655	1-554-303-21	SWITCH, 1	FACTIL			!		*1-691-292-11				
		**************************************	ZR BOARD		*****	******	*******	*****	************** *A-1390-351-A		PLETE	*****	******
			ACITOR>	22000		*09	022	·	4-039-042-01 4-382-854-11 4-383-023-01	SCREW (M3X10	), P, SW (+)		
	C1901 C1902	1-162-115-00 1-162-115-00	CERAMIC	330PF 330PF		10% 10%	2KV 2KV		<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td></cap<>	ACITOR>			
		<res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td><td>C801 C802</td><td>1-125-489-00 1-123-024-21</td><td>ELECT (BLOCK)</td><td>560MF 33MF</td><td>20%</td><td>200V 160V</td></res<>	SISTOR>					C801 C802	1-125-489-00 1-123-024-21	ELECT (BLOCK)	560MF 33MF	20%	200V 160V
	R1902 R1903	1-202-818-00 1-202-818-00 1-249-414-11 1-249-414-11	SOLID CARBON	1K 1K 560 560	20% 20% 5% 5%	1/2W 1/2W 1/4W 1/4W		C803 C804 C805	1-136-729-11 1-106-383-00 1-102-030-00	FILM MYLAR	1.5MF 0.047MF 330PF	5% 10%	400V 200V 500V
	11704		INECTOR>	500	JA	1/ 1#		C806 C807 C808 C809	1-130-495-00 1-123-875-11 1-126-183-11 1-124-903-11	ELECT Elect	0.1MF 10MF 1000MF 1MF	5% 20% 20% 20%	50V 50V 16V 50V
	7.17.	*1-564-522-11 *1-564-518-11	PLUG. CO	NNECTOR 3P			9	C810	1-124-903-11	ELECT	1MF	20%	50V
	ZR18	*1-691-292-11	PIN, CON	NECTOR (PC				C811 C812	1-124-902-00 1-102-973-00	CERAMIC	0.47MF 100PF	20% 5%	50V 50V
		*A-1390-346-A	ZG BOARD		*****	******	******	C813 C814 C815	1-102-244-00 1-106-391-12 1-106-367-00	MYLAR MYLAR	220PF 0.1MF 0.01MF	10% 10% 10%	500V 200V 200V
								C816 C817	1-124-907-11 1-124-119-00	ELECT	10MF 330MF	20% 20%	50V 16V
			PACITOR>	22005		109	2011	C818 C819	1-102-824-00 1-124-907-11 1-124-907-11	CERAMIC ELECT ELECT	470PF 10MF 10MF	5% 20% 20%	50V 50V 50V
		1-162-115-00 1-162-115-00		330PF 330PF		10% 10%	2KV 2KV	C820	1-124-907-11		10MF	20%	50V
		<re:< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td><td>C822 C823</td><td>1-124-034-51 1-124-907-11</td><td>ELECT ELECT</td><td>33MF 10MF</td><td>20% 20%</td><td>16V 50<b>V</b></td></re:<>	SISTOR>					C822 C823	1-124-034-51 1-124-907-11	ELECT ELECT	33MF 10MF	20% 20%	16V 50 <b>V</b>
	R1911	1-202-818-00	SOLID	1K	20%	1/2W		C824 C825	1-124-034-51 1-124-034-51	ELECT ELECT	33MF 33MF	20% 20%	16 <b>V</b> 1 <b>6V</b>
	R1913	1-249-414-11	CARBON	1K 560	20% 5%	1/2W 1/4W 1/4W		C826 C827	1-124-907-11 1-124-907-11	ELECT ELECT	10MF	20% 20%	50V 50V
	K1914	1-249-414-11	CARBON	560	5%	1/4W		C828 C829	1-124-907-11 1-124-907-11 1-124-034-51	ELECT	10MF 33MF	20% 20%	50V 16V
			NNECTOR>					C830	1-124-907-11	ELECT	10MF	20%	50V
	ZG2 ZG19	*1-564-523-11 *1-691-292-11	PLUG, CO PIN, CON	NNECTOR 8P NECTOR (PC	BOARI	) 3P		C832	1-106-220-00 1-124-907-11	ELECT	0.1MF 10MF	10% 20%	100V 50V
	****	*******	******	******	*****	*****	******	C833 C834 C835	1-124-916-11 1-102-121-00 1-124-927-11	ELECT CERAMIC ELECT	22MF 0.0022MF 4.7MF	20% 10% 20%	50V 50V 50V
		*A-1390-347-A		, COMPLETE				C836	1-130-475-00	•	0.0022MF		50V
								C837 C838	1-136-169-00 1-130-475-00	FILM MYLAR	0.22MF 0.0022MF	5% 5%	50V 50V
			PACITOR>	22222		4.094	200	C839 C840	1-102-106-00 <b>1</b> :136-807=11	CERAMIC FILM	100PF 0.018MF	10% 3%	50 <b>V</b> 1.6KV
		1-162-115-00 1-162-115-00		330PF 330PF		10% 10%	2KV 2KV	C841 C842 C844	1-136-729-11 1-130-471-00 1-106-391-12	MYLAR	1.5MF 0.001MF 0.1MF	5% 5% 10%	400V 50V 200V
			SISTOR>					C850 C851	1-136-169-00 1-124-907-11	FILM	0.22MF 10MF	5% 20%	50V 50V
	R1922		SOLID	1 K 1 K	20% 20%	1/2W 1/2W		C852	1-124-907-11	ELECT	10MF	20%	50V
	R1923 R1924	1-249-414-11 1-249-414-11	CARBON CARBON	560 560	5% 5%	1/4W 1/4W		C853 C854 C855	1-106-220-00 1-126-329-11 1-124-514-11	ELECT	0.1MF 470MF 100MF	10% 20% 20%	100V 50V 50V
		<c:f1< td=""><td>NNECTOR&gt;</td><td></td><td></td><td></td><td></td><td>C856</td><td>1-162-114-00</td><td></td><td>0.0047MF</td><td></td><td>2KV</td></c:f1<>	NNECTOR>					C856	1-162-114-00		0.0047MF		2KV
	283	*1-564-524-11		INNECTOR 9P	•			C858 C888	1-12 <b>4</b> -119-00 1-12 <b>4-</b> 903-11	ELECT ELECT	330MF 1MF	20% 20%	16V 50V

The components identified by shading and mark are critical for safety.

Replace only with part number specified.

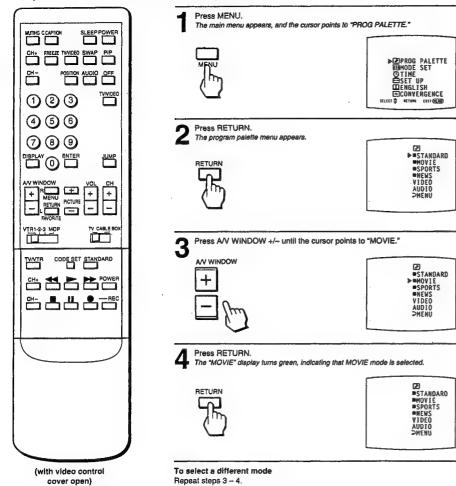
Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
<dio></dio>				<trai< th=""><th>NSISTOR&gt;</th><th></th><th></th><th></th><th></th></trai<>	NSISTOR>				
D801 8-719-928-08 D802 8-719-300-80 D803 8-719-109-85 D804 8-719-911-19 D805 8-719-911-19	DIODE ERD28-08S DIODE RU-1C DIODE RD5.1ES-B2 DIODE 1SS119 DIODE 1SS119		Q801 A Q802 Q803 Q804 Q805	8-729-119-76	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2688-1 A1175-1 C2785-1	.K HFE HFE		
D806 8-719-109-85 D807 8-719-109-85 D808 8-719-911-19 D809 8-719-911-19 D810 8-719-911-19	DIODE RD5.1ES-B2 DIODE RD5.1ES-B2 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		Q806 Q807 Q808 Q809	8-729-119-78 8-729-119-76	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2785-1 C2785-1 A1175-1	HFE HFE HFE		
D811 8-719-109-85 D812 8-719-911-19 D813 8-719-911-19 D814 8-719-911-19 D815 8-719-110-36	DIODE RD5.1ES-B2 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE RD13ES-B2		Q812 Q820 Q851 Q852 Q853	8-729-019-88 8-729-119-76 8-729-119-78 8-729-119-78 8-729-820-98	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1175-I C2785-I C2785-I	HPE HPE HPE		
	DIODE ERCO6-15S DIODE 1SS119			<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
- 0853 A 8-719 903-09	DIODE 188119		R801 R802 R803 R804 R805	1-216-378-11 1-215-926-00 1-215-926-00 1-249-429-11 1-249-423-11	METAL OXIDE METAL OXIDE METAL OXIDE CARBON CARBON	5.6 33K 33K 10K 3.3K	5% 5% 5% 5%	2W 3W 3W 1/4W 1/4W	7 7 7
D892 8-719-110-49			R806 R807 R808 R809 R810	1-249-425-11 1-249-441-11 1-249-417-11 1-249-417-11 1-249-441-11	CARBON CARBON CARBON CARBON CARBON	4.7K 100K 1K 1K 1K 100K	5%%%%% 555555	1/4W 1/4W 1/4W 1/4W 1/4W	
1C801 8-759-231-58 1C802 8-759-103-93 1C803 8-759-990-82 1C804 8-759-103-93 1C805 8-759-100-75	IC TA7812S IC UPC393C IC TL082CP IC UPC393C IC UPC394C		R811 R812 R813 R814 R815	1-249-421-11 1-249-420-11 1-215-921-11 1-249-409-11 1-249-415-11	CARBON CARBON METAL OXIDE CARBON CARBON	2.2K 1.8K 4.7K 220 680	555555555555555555555555555555555555555	1/4W 1/4W 3W 1/4W 1/4W	F
<c01< td=""><td>IL&gt;</td><td></td><td>R816 R817</td><td>1-214-777-00 1-215-471-00</td><td>METAL NETAL</td><td>100K 120K</td><td>1% 1%</td><td>1/4W 1/4W</td><td></td></c01<>	IL>		R816 R817	1-214-777-00 1-215-471-00	METAL NETAL	100K 120K	1% 1%	1/4W 1/4W	
L801 1-459-862-11 L802 1-424-603-11 L803 1-459-313-00 L804 1-410-482-31	COIL, CHOKE 90UH COIL, CHOKE 1.05MMH COIL WITH CORE (HWC) INDUCTOR 100UH		R818 R819 R820	1-215-471-00 1-215-450-00 1-215-451-00	METAL METAL METAL	120K 16K 18K	1% 1% 1%	1/4W 1/4W 1/4W	
	COLL, CHOKE 1.05MMU	THE STATE OF THE S	R821 R822 R823 R824 R825	1-249-423-11 1-249-433-11 1-249-429-11 1-215-469-00 1-215-453-00	CARBON CARBON CARBON METAL METAL	3.3K 22K 10K 100K 22K	5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
N3 *1-508-766-00 N4 *1-564-507-11	PIN, CONNECTOR 3P PLUG, CONNECTOR 5P PIN, CONNECTOR (5MM PITCH) 4P PLUG, CONNECTOR 4P PLUG, CONNECTOR 5P		R826 R827 R828 R829 R830	1-214-962-00 1-214-764-00 1-215-455-00 1-215-455-00 1-215-928-11	METAL METAL METAL METAL METAL OXIDE	820K 30K 27K 27K 68K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 3W	F
N7 *1-508-765-00 N8 *1-508-766-00 N9 1-506-348-99 N10 *1-564-511-41	PIN, CONNECTOR (5MM PITCH) 2P PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 4P PIN, CONNECTOR 3P PLUG, CONNECTOR 8P		R831 R832 R833 R834 R835	1-215-928-11 1-249-417-11 1-249-419-11	METAL OXIDE CARBON	68K 1K 1.5K 1.5K 2.2K	5% 5%	3W 1/4W 1/4W 1/4W 1/4W	F
N21 *1-560-123-00 N30 *1-508-784-00 N851 *1-506-371-00	PLUG, CONNECTOR (2.5MM) 6P PLUG, CONNECTOR (2.5MM) 3P PIN, CONNECTOR (2.5MM PITCH) 1P PIN, CONNECTOR 2P PIN, CONNECTOR 2P		R836 R837 R838 R839 R840	1-215-435-00 1-249-433-11 1-249-435-11 1-249-438-11 1-249-434-11	METAL CARBON CARBON CARBON	3.9K 22K 33K 56K 27K	1% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
	ON LAMP> LAMP, NEON		R841 R842 R843	1-249-429-11 1-249-435-11 1-249-423-11	CARBON CARBON	10K 33K 3.3K	5% 5% 5%	1/4W 1/4W 1/4W	

This projection TV features four modes (STANDARD, MOVIE, SPORTS, NEWS) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

Example: Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater.



#### Selecting standard mode (without using the menus)

Follow these instructions to select standard mode without using the on-screen menus.

Press STANDARD.



Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the previous menu

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal acreen.
Press MENU.

#### When you select STANDARD mode

You receive standard picture and sound quality. Any video or audio adjustments you made ("Adjusting the Projection TV," pp. 44 – 52) are cancelled and the original factory settings are restored.

#### When you select MOVIE mode

You receive a finely detailed picture, and a theatrical audio effect. To further adjust picture and sound qualities, follow the instructions on pp. 44 – 52.

#### When you select SPORTS mode

You receive a vivid, bright picture, and sound with a sports stadium effect. To further adjust picture and sound qualities, follow the instructions on pp. 44 – 52.

#### When you select NEWS mode

Picture noise is reduced, and you receive clear voice reproduction. To further adjust picture and sound qualities, follow the instructions on pp. 44 – 52.

## KP-41EXR96 RM-Y112A

N S

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R844 1-249-433-11 R845 1-249-435-11 R846 1-249-429-11 R847 1-214-761-00 R848 1-215-429-00	CARBON CARBON	22K 33K 10K 22K 2.2K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		T802	1-437-078-11 1-437-090-00	NSFORMER> TRANSFORMER, HORYZONTA HDT		
R849 1-215-421-00 R850 1-215-429-00	METAL METAL	2.2K	1% 1%	1/4W 1/4W				TRANSFORMER ASSY, FLYB		
R851 1-215-404-00 ■R852 ▲ R853 1-215-469-00	METAL METAL	200	1%	1/4W 1/4W 1/4W	a.co.yy. Ay ay an	*	A-1394-421-A	S BOARD, COMPLETE		
R854 1-249-430-11 R855 1-215-469-00 R856 1-249-430-11 R857 1-249-433-11 R858 1-249-413-11		12K 100K 12K 22K 470		1/4W 1/4W 1/4W 1/4W 1/4W		*		SOCKET, CONNECTOR 2P		
R859 1-249-435-11 R860 1-249-441-11 R861 1-249-421-11 R862 1-249-434-11 R863 1-249-431-11		33K 100K 2.2K 27K 15K		1/4W 1/4W 1/4W 1/4W 1/4W		C3408 C3409 C3411	1-164-232-11 1-124-477-11 1-124-034-51	CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.01MF BLECT 47MF BLECT 33MF CERAMIC CHIP 0.0022MF	10% 20% 20%	50V 50V 16V 16V 50V
R864 1-249-423-11 R865 1-249-440-11 R866 1-249-436-11 R867 1-249-437-11 R868 1-249-428-11	CARBON CARBON CARBON CARBON	3.3K 82K 39K	555555555555555555555555555555555555555	1/4W 1/4W 1/4W 1/4W 1/4W	•	C3447 C3448 C3449	1-163-117 <b>-</b> 00 1-163-023-00	CERAMIC CHIP 330PF CERAMIC CHIP 100PF CERAMIC CHIP 0.015MF CERAMIC CHIP 0.0033MF CERAMIC CHIP 47PF	5% 10% 10% 5%	50V 50V 50V 50V 50V
R869 1-249-429-11 R870 1-249-417-11 R871 1-249-440-11 R872 1-249-423-11 R873 1-249-441-11	CARBON CARBON CARBON CARBON	10K 1K 82K 3.3K	5% 5% 5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3452 C3453 C3454	1-164-004-11 1-163-989-11 1-124-477-11 1-126-162-11 1-126-163-11	CERAMIC CHIP 0.033MF ELECT 47MF	10% 10% 20% 20% 20%	25V 25V 16V 50V 16V
R874 1-249-435-11 R875 1-249-421-11 R876 1-215-426-06 R877 1-249-435-11 R878 1-249-441-11	CARBON CARBON METAL CARBON	33K 2.2K 1.6K		1/4W 1/4W 1/4W 1/4W 1/4W		C3457 C3459 C3460	I-163-129-00 I-163-117-00 I-124-477-11 I-163-099-00 I-163-099-00	CERAMIC CHIP 100PF ELECT 47MF	5% 5% 20% 5%	50V 50V 16V 50V 50V
	METAL OXIDE CARBON METAL CARBON		5% 5% 1% 5% 5%	3W 1/4W 1/4W 1/4W 1/4W	F	C3508 C3509 C3515	1-164-232-11 1-164-005-11 1-163-139-00 1-163-121-00 1-126-157-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 820PF CERAMIC CHIP 150PF	10% 5% 5% 20%	50V 25V 50V 50V 16V
	METAL OXIDE CARBON CARBON METAL	2.2K 56K 560 100 270	5%	2W 1/4W 1/4W 1/4W 1/4W	F	D3444	<dio <<="" td=""><td>DIODE MA110</td><td></td><td></td></dio>	DIODE MA110		
R889 1-249-417-11 R890 1-249-417-11 R891 1-216-489-11 R892 1-249-417-11 R893 1-215-453-06	CARBON METAL OXIDE CARBON	1K 1K 27K 1K 22K	5% 5% 5% 1%	1/4W 1/4W 3W 1/4W 1/4W	F	I C3402 I C3441 I C3442	8-759-982-21 8-759-084-12	IC MN1280-S IC M37201M6-A18FP IC RC78L05A		
R894 1-249-401-1 R895 1-202-731-00 R896 1-260-111-1 R897 1-247-881-00 R898 1-202-730-00	O SOLID CARBON CARBON	47 10M 10K 120K 8-2M	5% 20% 5% 5% 20%	1/4W 1/2W 1/2W 1/4W 1/2W		1	8-759-403-44 <coi< td=""><td>IC MN1280-S</td><td></td><td></td></coi<>	IC MN1280-S		
	CARBON SOLID METAL OXIDE METAL OXIDE	10K 47 68K 100	5% 20% 5% 5%	1/4W 1/2W 3W 3W	F	L3461	1-408-421-00 1-408-409-00 1-408-421-00	INDUCTOR 10UH		
<si< td=""><td>PARK GAP&gt;</td><td></td><td></td><td></td><td></td><td>03441</td><td></td><td>ANSISTOR&gt; TRANSISTOR 2SD601A-Q</td><td></td><td></td></si<>	PARK GAP>					03441		ANSISTOR> TRANSISTOR 2SD601A-Q		
SG801 1-519-422-1	GAP, SPARK					Q3444	8-729-903-10	TRANSISTOR FWW1		



REF.NO. PART	. NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	<res< td=""><td>STOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td>******</td><td></td><td></td><td></td><td></td></res<>	STOR>						******				
R3401 1-2			1K	5%	1/10₩			************** *A-1394-422-A	U BOARD, COM	PLETE *****		
R3402 1-2 R3403 1-2 R3404 1-2	16-073-00 16-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 220	5% 5%	1/10W 1/10W			<caf< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td></caf<>	PACITOR>			
R3406 1-2	16-065-00	METAL GLAZE	4.7K 220	5%	1/10W		C1004 C1005	1-102-125-00 1-126-301-11	CERAMIC ELECT	0.0047MF 1MF	10% 20%	50V 50V
R3408 1-2 R3409 1-2	16-065-00 16-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 220 100	5% 5%	1/10W 1/10W 1/10W	·	C1006 C1007 C1008	1-164-096-11 1-124-598-11 1-124-598-11	ELECT ELECT	0.01MF 22MF 22MF	20% 20%	50V 25V 25V
R3442 1-2	16-041-00	METAL GLAZE	100 470	5% 5%	1/10W		C1010 C1011	1-124-465-00 1-124-465-00	ELECT ELECT	0.47MF 0.47MF	20% 20%	50V 50V
R3444 1-2 R3445 1-2	16-077-00 16-689-11	METAL GLAZE METAL GLAZE METAL GLAZE	470 470 15K 39K 33K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C1012 C1013 C1014	*A-1394-422-A <cap 1-102-125-00="" 1-124-465-00="" 1-124-465-01="" 1-124-598-11="" 1-126-163-11<="" 1-126-301-11="" 1-164-096-11="" td=""><td>ELECT CERAMIC ELECT</td><td>0.47MF 0.0047MF 4.7MF</td><td>20% 10% 20%</td><td>50V 50V 50V</td></cap>	ELECT CERAMIC ELECT	0.47MF 0.0047MF 4.7MF	20% 10% 20%	50V 50V 50V
R3446 1-2 R3449 1-2	16-085-00 16-073-00	METAL GLAZE	33K 10K	5% 5%	1/10W 1/10W		C1016 C1018	1-126-163-11 1-126-163-11 1-126-301-11 1-124-242-00 1-124-465-00 1-124-242-00 1-102-949-00	ELECT ELECT	4.7MF 1MF	20% 20%	50V 50V
R3450 1-2 R3451 1-2	16-057-00 16-093 <b>-</b> 00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 68K 18K	5% 5% 5%	1/10W 1/10W 1/10W		C1020 C1021 C1022	1-124-242-00 1-124-465-00 1-124-242-00	ELECT ELECT ELECT	33MF 0.47MF 33MF	20% 20% 20%	25V 50V 25V
R3453 1-2	16-679-11	METAL CHIP METAL GLAZE	15K 330	0.50% 5%	1/10W		C1026	1-124-242-00 1-102-949-00 1-102-949-00 1-124-242-00 1-124-282-00 1-124-478-11 1-102-963-00	CERAMIC CERAMIC	12PF 12PF	5% 5%	50 V 50 V
R3455 1-2	16-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 15K	5% 5%	1/10W 1/10W		C1028 C1029	1-124-242-00 1-124-282-00 1-124-478-11	ELECT ELECT ELECT	12PF 12PF 33MF 22MF 100MF	20% 20% 20%	25V 16V 25V
R3464 1-2	16-073-00	METAL GLAZE	10K	5%	1/10W	٠	C1031	1-124-478-11 1-102-963-00 1-124-598-11 1-124-282-00 1-124-282-00 1-124-282-00 1-124-478-11 1-124-465-00 1-124-598-11 1-124-598-11 1-124-465-00 1-124-768-11 1-124-768-11 1-124-499-11 1-124-499-11	CERAMIC	33PF	5%	50V 25V
R3472 1-2 R3473 1-2	16-091-00 16-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 56K 100 0 2.2K	5% 5%	1/10W 1/10W		C1034 C1036	1-124-282-00 1-124-282-00	ELECT ELECT	22MF 22MF	20%	16V 16V
R3504 1-2	16-057-00	METAL GLAZE METAL GLAZE	2.2K	5% 5%	1/10W 1/10W		C1037	1-124-282-00	ELECT	100MF	20%	16V 25V
R3511 1-2 R3512 1-2	16-025-00 16-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 100 2.7K 2.7K 2.7K	5% 5% 5%	1/10W 1/10W 1/10W		C1047 C1048 C1049	1-124-465-00 1-126-301-11 1-124-598-11	ELECT ELECT	0.47MF 1MF 22MF	20% 20% 20%	50V 50V 25V
R3513 1-2	16-059 <b>-</b> 00 16-059 <b>-</b> 00	METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		C1051	1-124-465-00 1-124-589-11	ELECT	0.47MF 47MF	20% 20%	50V 16V
R3520 1-2	16-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K 0 1 O K	5% 5%	1/10W 1/10W 1/10W		C1056 C1057	1-124-499-11 1-124-768-11 1-124-499-11	ELECT ELECT RLECT	1MF 4.7MF 1MF	20% 20% 20%	50V 50V 50V
R3525 1-2	16-295-00	METAL GLAZE METAL GLAZE	0 10K	5% 5%	1/10W 1/10W		C1060	1-124-499-11	ELECT FLECT	împ 1mp	20% 20%	50V
R3529 1-2	16-295-00	METAL GLAZE	0	5% 5%	1/10W		C1063	1-124-499-11 1-102-129-00 1-124-768-11	ELECT	0.01MF 4.7MF 100MF	10% 20% 20%	50V 50V 16V
R3531 1-2	16-073-00 16-073-00 16-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K - 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W		C1000	1-126-101-11		TOOM	20%	104
R3537 1-2		METAL GLAZE METAL GLAZE	220 0	5% 5%	1/10W 1/10W		CM100	اد>1-466-162-31	OCK> BLOCK, COM	FILTER (CFB-	4)	
R3540 1-2		METAL GLAZE	10K	5 <b>%</b>	1/10W			1@>	ODE>			
S42 *1-5		NECTOR> PIN, CONNEC	TOR AP				D1005	8-719-110-36 8-719-110-36	DIODE RD13E	S-B2 S-B2		
S43 *1-5 S45 *1-5	64-508-11 64-511-71	PLUG, CONNE PLUG, CONNE PLUG, CONNE	CTOR 5P CTOR 8P				D1010 D1011	8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13E	S-B2 S-B2		
\$46 *1-5 \$47 *1-5	64-506-11	PLUG, CONNE	CTOR 3P				D1013	8-719-110-36	DIODE RD13E	S-B2		
		STAL>					D1018	8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13E DIODE RD13E	S-B2 S-B2		
		VIBRATOR, C VIBRATOR, C					D1020	8-719-109-66 8-719-109-66	DIODE RD3.3	ES-B2		
							, - 2041	J . 15 105 00				



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
D1022 8-719-109-66 <1C>	DESCRIPTION  DIODE RD3.3ES-B2  IC CXA1545S IC UPC4557C  L>  INDUCTOR 120UH INDUCTOR 120UH INDUCTOR 120UH INDUCTOR 120UH  NSISTOR>  TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC1785-HFE TRANSISTOR 2SA1175-HFE TRANSI		R1059 R1061 R1062 R1063 R1066	1-249-405-11 1-249-409-11 1-249-441-11 1-249-409-11 1-215-437-00	CARBON CARBON CARBON CARBON METAL	100 5% 220 5% 100K 5% 220 5% 4.7K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
1C1002 8-752-056-50 1C1011 8-759-145-57 <c01< td=""><td>1C CXA1545S 1C UPC4557C</td><td></td><td>R1067 R1068 R1069 R1070</td><td>1-215-437-00 1-215-437-00 1-215-437-00 1-249-411-11</td><td>METAL METAL METAL CARBON CARBON</td><td>4.7K 1% 4.7K 1% 4.7K 1% 330 5%</td><td>1/4W 1/4W 1/4W 1/4W 1/4W</td><td></td></c01<>	1C CXA1545S 1C UPC4557C		R1067 R1068 R1069 R1070	1-215-437-00 1-215-437-00 1-215-437-00 1-249-411-11	METAL METAL METAL CARBON CARBON	4.7K 1% 4.7K 1% 4.7K 1% 330 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
L1001 1-408-422-00 L1002 1-408-422-00	INDUCTOR 120UH INDUCTOR 120UH		R1077 R1077 R1077 R1078	1-249-431-11 1-249-418-11 1-249-418-11 1-249-405-11	CARBON CARBON CARBON CARBON	15K 5% 1.2K 5% 1.2K 5%	1/4W 1/4W 1/4W 1/4W	
01009 8-729-119-78	TRANSISTOR 2SC2785-HFR		R1080	1-215-423-00	METAL	1.2K 1%	1/40	
01010 8-729-119-78 01016 8-729-119-76 01017 8-729-119-76 01018 8-729-141-26	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC3622A-LK		R1081 R1089 R1094 R1096 R1099	1-215-421-00 1-249-405-11 1-249-405-11 1-249-405-11 1-249-413-11	METAL CARBON CARBON CARBON- CARBON	1K 1% 100 5% 100 5% 100 5% 470 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q1019 8-729-119-76 Q1020 8-729-119-76 Q1021 8-729-119-76 Q1022 8-729-141-26 Q1023 8-729-119-78	TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC3622A-LK TRANSISTOR 2SC2785-HFE	•	R1110 R1116 R1118 R1121 R1133	1-249-405-11 1-249-441-11 1-249-413-11 1-249-441-11	CARBON CARBON CARBON CARBON CARBON	100 5% 100K 5% 470 5% 100K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q1029     8-729-119-76       Q1030     8-729-119-78       Q1031     8-729-119-78       Q1032     8-729-119-76       Q1033     8-729-119-76	TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE		R1134 R1137 R1138 R1139	1-249-405-11 1-249-411-11 1-249-415-11 1-249-413-11	CARBON CARBON CARBON CARBON	100 5% 330 5% 680 5% 470 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q1034 8-729-119-76	TRANSISTOR 2SA1175-HFE		R1140	1-249-413-11	CARRON	470 5%	1/4W	
<res< td=""><td>SISTOR&gt;</td><td></td><td>R1142 R1147</td><td>1-249-415-11</td><td>CARBON CARBON</td><td>680 5% 100 5%</td><td>1/4W 1/4W</td><td></td></res<>	SISTOR>		R1142 R1147	1-249-415-11	CARBON CARBON	680 5% 100 5%	1/4W 1/4W	
R1011 1-249-435-11	CARBON 33K 5%	1/4W	R1148 R1149	1-249-405-11 1-249-417-11	CARBON CARBON	100 5% 1K 5%	1/4W 1/4W	
R1012	CARBON 27K 5% CARBON 1K 5% CARBON 100K 5% CARBON 4.7K 5%	1/4W 1/4W 1/4W 1/4W	R1150 R1151 R1152	1-249-405-11 1-249-405-11 1-249-417-11	CARBON CARBON CARBON	100 5% 100 5% 1K 5%	1/4W 1/4W 1/4W	
R1016 1-249-441-11 R1017 1-249-405-11	CARBON 100K 5% CARBON 100 5%	1/4W 1/4W		<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td></con<>	NECTOR>			
R1018 1-249-427-11 R1019 1-249-427-11 R1023 1-249-405-11 R1026 1-249-425-11 R1028 1-249-434-11	CARBON 6.8K 5% CARBON 100 5%	1/4W 1/4W 1/4W 1/4W 1/4W	U12 U13 U16 U22 U23	1-573-300-11 1-573-300-11 *1-564-513-11 1-566-942-11 *1-566-367-11	CONNECTOR, BO CONNECTOR, BO PLUG, CONNECTOR, HID CONNECTOR, HID CONNECTOR, HID	DARD TO BOAR DARD TO BOAR FOR 10P NGE (RECEPTAC INGE (RECEPT	D 18P D 18P LE)30P ACLE)	
R1029 1-249-435-11 R1030 1-249-417-11	CARBON 1K 5%	1/4W 1/4W	U47	*1-564-506-11	PLUG, CONNEC	TOR 3P		
R1032 1-249-417-11 R1033 1-249-393-11		1/4W 1/4W F	*****	********	*******	******	*****	*******
R1034 1-249-417-11 R1036 1-249-440-11 R1037 1-249-440-11 R1038 1-249-440-11	CARBON 1K 5% CARBON 82K 5% CARBON 82K 5%	1/4W 1/4W 1/4W 1/4W		*A-1394-432-A	*******			
R1043 1-249-417-11	CARBON 1K 5%	1/4W			ACITOR>			
R1046 1-249-413-11 R1048 1-249-405-11 R1050 1-249-405-11 R1051 1-249-417-11	CARBON 100 5% CARBON 100 5% CARBON 1K 5%	1/4W 1/4W 1/4W 1/4W	C1154 C1155 C1158	1-102-074-00 1-164-096-11 1-126-103-11 1-124-598-11 1-124-598-11	CERAMIC CERAMIC ELECT ELECT ELECT	0.001MF 0.01MF 470MF 22MF 22MF	10% 20% 20% 20%	50V 50V 16V 25V 25V
R1052 1-249-413-11 R1054 1-249-405-11 R1055 1-249-413-11 R1056 1-249-405-11 R1057 1-249-441-11	CARBON 100 5% CARBON 470 5% CARBON 100 5%	1/4W 1/4W 1/4W 1/4W 1/4W	C1161 C1164 C1165 C1166	1-124-598-11 1-126-103-11 1-126-301-11	ELECT ELECT ELECT ELECT ELECT	22MF 470MF 1MF 1MF 1MF	20% 20% 20% 20% 20%	25V 16V 50V 50V 50V

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

S1150 1-572-198-11 SWITCH, KEYBOARD

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

 The components identified by 

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

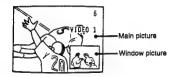
# KP-41EXR96 RM-Y112A



REF	.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
€1	199	1-126-301-11 1-102-129-00 1-102-129-00	CERAMIC	1MF 0.01MF 0.01MF		20% 10% 10%	50V 50V 50V	111711		ONNECTOR>	
		<dio< td=""><td>DE&gt;</td><td></td><td></td><td></td><td></td><td>UT22 UT23</td><td>*1-566-941-11 *1-566-641-11</td><td>CONNÉCTOR, HINGE (TAB) 30 CONNECTOR, HINGE (TAB) 18 PLUG, CONNECTOR 3P</td><td>)P BP</td></dio<>	DE>					UT22 UT23	*1-566-941-11 *1-566-641-11	CONNÉCTOR, HINGE (TAB) 30 CONNECTOR, HINGE (TAB) 18 PLUG, CONNECTOR 3P	)P BP
D 1 D 1 D 1	1158 1159 1160	8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13ES- DIODE RD13ES- DIODE RD13ES-	-B2 -B2 -B2				}	**************************************	EXECULATEDUS	********
D 1 D 1 D 1	1165 1166 1167	8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13ES- DIODE RD13ES- DIODE RD13ES-	-B2 -B2 -B2				4	<b>∆</b> 1-451-396-2 <b>∆</b> 1-452-443-1 <b>∆</b> 1-453-108-1	RESISTOR ASSY (HIGH-VOLT DEFLECTION YOKE (Y936PA) NECK ASSY, PICTURE TUBE(I DC BLOCK, HIGH-VOLTAGE SPEAKER (13CM) (COAXIAL)	NA367)
Đ1 D1	1169 1170	8-719-110-36 8-719-110-36	DIODE RD13ES- DIODE RD13ES-	-B2 -B2					*1-555-110-00 1-561-306-00	) JACK, PIN (F)	
		<jac< td=""><td>K&gt;</td><td></td><td></td><td></td><td></td><td>V902.</td><td>1-574-590-3 1-696-002-1 1 8-736-631-0</td><td>I LEAD ASSY, HIGH-VOLTAGE 2 CORD, POWER (WITH NOISE 5 PICTURE TUBE (SD-249 (G)</td><td>Filter) )</td></jac<>	K>					V902.	1-574-590-3 1-696-002-1 1 8-736-631-0	I LEAD ASSY, HIGH-VOLTAGE 2 CORD, POWER (WITH NOISE 5 PICTURE TUBE (SD-249 (G)	Filter) )
J1	1001	1-537-187-11 1-573-970-11	TERMINAL, PUS BLOCK, (S) TI	SH (4P) ERMINAL				V903 /	<b>A</b> . 8-736-632-0 <b>A</b> . 8-736-633-0	5 PICTURE TUBE (SD-249 (B) 5 PICTURE TUBE (SD-249 (R)	
J:	1004 1005 1006	1-573-970-11 1-695-049-11 1-695-054-11 1-573-970-11	JACK BLOCK, (S) TI BLOCK, (S) TI	BRMINAL PIN ERMINAL				MR900 2 MR901 2 MR902	<b>^</b>	METAL FILM METAL FILM METAL FILM	1/40 1/40 1/40
		1-573-969-11 1-573-969-11								**********	COLCEAN THE MACHINE CONTRACTOR SET AND THE PRODUCT OF STATE ST
		<res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td>ORIES AND PACKING MATERIALS</td><td></td></res<>	SISTOR>							ORIES AND PACKING MATERIALS	
R R R	1164 1165 1166	1-249-403-11 1-247-895-00 1-247-895-00 1-247-895-00 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	68 470K 470K 470K 470K	5%	1/4W 1/4W 1/4W 1/4W 1/4W			*3-704-356-0 3-756-987-2 3-756-987-3 3-756-987-4 *4-030-895-0	1 MANUAL, INSTRUCTION 1 MANUAL, INSTRUCTION (KP- 1 MANUAL, INSTRUCTION (KP-	41EXR96(C))
R R R		1-247-895-00 1-249-403-11 1-249-403-11 1-247-895-00 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	470K 68 68 470K 470K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W			*4-036-102-0 *4-036-106-0 *4-036-107-0 *4-036-108-0 *4-381-155-0	1 INDIVIDUAL CARTON 1 TRAY 1 CUSHION (LOWER) (ASSY)	
R R R		1-247-804-11 1-247-895-00 1-247-895-00 1-247-804-11 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	75 470K 470K 75 470K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W			R 1-693-114-2 9-902 719-0		2A)
R R R	1179 1180 1181 1183	1-247-895-00 1-247-804-11 1-247-804-11 1-247-895-00 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	470K 75 75 470K 470K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W			9-998-214-0		(112A)
R R R	1185 1186 1188 1191 1192	1-247-895-00 1-247-895-00 1-247-804-11 1-249-425-11 1-249-425-11	CARBON CARBON CARBON CARBON CARBON	470K 470K 75 4.7K 4.7K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W					
R	1193 1194 1196	1-249-425-11 1-249-425-11 1-249-426-11	CARBON CARBON CARBON	4.7K 4.7K 5.6K	5% 5% 5%	1/4W 1/4W 1/4W					
		<sw1< td=""><td>TCH&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></sw1<>	TCH>								

## **Watching Two Pictures at Once (PIP)**

You can watch both the main picture and a window picture simultaneously, using the Picture-in-Picture (PIP) function. KP-41EXR96 in equipped with one-tuner PIP. To watch two TV channels simultaneously, you must first connect a VCR to the projection TV, which will enable you to watch a second TV channel through the VCR tuner. (See "Connecting Other Equipment," pp. 15-19.) Other models are equipped with two-tuner PIP, allowing you



to watch two TV channels at once.

#### Picture-in-Picture special features

When watching the main picture and a window picture.

- . Swap the main and window pictures (SWAP).
- . Change the position of the window picture (POSITION).

. The window picture sound is also output from the AUDIO (VAR)

. The video label and channel caption will not appear with the

OUT jacks. The AUDIO OUT and MONITOR OUT jacks output

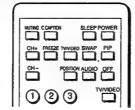
· If you select a blocked channel in the window picture, the display

"BLOCKED" appears with the window picture. (See "Setting

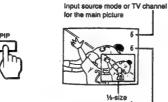
- · Display a still picture (FREEZE).
- · Choose the sound from the main or window picture (AUDIO).

#### Displaying a window picture

Remote Commander



Press PIP to display a window picture



input source mode or TV channel for the window picture





A window picture appears in the last mode you watched. Each time you press PIP, a 1/9 or 1/16 size window picture appears alternately.

To turn PIP function off Press OFF.

The window picture disappears.

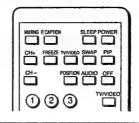
To receive the window picture sound Press AUDIO.

The D display appears for a few seconds, indicating that the window picture sound is being received.

To restore the main picture sound Press AUDIO again.

#### Changing the window picture input mode

Remote Commander



Press PIP to display a window picture.





Press TV/VIDEO in the Picture-in-Picture control area to select the input mode. Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.

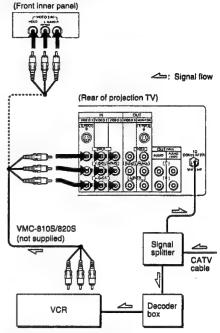




To change TV channels in the window picture Press CH +/- in the PIP control area.

#### Displaying CATV input as a window picture

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below.



After making the above connections, turn the cable connection on by following the steps on pp. 26 - 27; then continue with the steps below.

Follow steps 1 - 2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR.

Put your VCR on an inactive channel (channel 3 or 4).

Change pay cable TV channels with the decoder box.

To control your cable converter box with the supplied Remote Commander See p. 70.

Notes

the main picture sound only.

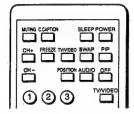
window picture even if you have set them.

CHANNEL BLOCK," pp. 62 ~ 63.)

#### Changing the position of the window picture

Follow these instructions to change the position of the window picture on the screen.

#### Remote Commander



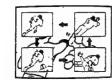
Press PiP to display a window picture.





Press POSITION. Each time you press POSITION, the window picture moves as illustrated.

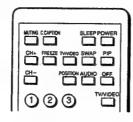




#### Displaying a still picture

Use the FREEZE function to display a still picture. This function is useful when you want to write down a recipe from a cooking program, a displayed address or phone number and so on.

#### Remote Commander



Press PIP to display a window picture.





Press FREEZE. The window picture image remains still on the screen.



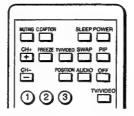


To restore the normal picture Press FREEZE again.

#### Swapping the main and window pictures

Follow these instructions to swap the input signals of the main and window pictures.

#### Remote Commander



Press PIP to display a window picture.





Press SWAP. Each time you press SWAP, the images from the main and window pictures switch places.





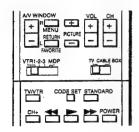
## Adjusting the Projection TV

You can adjust the picture and sound for each input mode (TV, VIDEO 1, VIDEO 2, VIDEO 3) by pressing TV/VIDEO on the projection TV or on the Remote Commander to select the input mode, before making the adjustments. These adjustments are retained in memory even when you turn off the projection TV, but are cancelled after you change the adjustments, or select a picture and sound mode (pp. 38 - 39).

#### Adjusting the picture

Follow these instructions to adjust PICTURE, HUE, COLOR, BRIGHT (brightness) and SHARP (sharpness).

Remote Commander (with video control cover open)



Press MENU. The main menu appears, and the cursor points in \*PROG PALETTE."



Press RETURN. The program palette menu appears.



Press AV WINDOW +/-- until the cursor points to "VIDEO."

Press RETURN. The VIDEO screen appears.



Press A/V WINDOW +/- until the cursor points to the item you want to adjust.



Press AV WINDOW +/- to make the adjustment.

Picture quality	Press A/V WINDOW -	Press A/V WINDOW +
PICTURE	For decreased picture contrast with soft color	For increased picture with vivid color
HUÉ	Skin tones become purplish	Skin tones become greenish
COLOR	For less color intensity	For more color intensity
BRIGHT	For less brightness	For more brightness
SHARP	For less sharpness	For more sharpness

Press RETURN. The adjustment is complete, and the VIDEO screen automatically reappears.



To adjust other items Repeat steps 5 - 8.

To restore the factory settings for all the items Select "STANDARD" on the program palette menu, and or, press STANDARD on the Remote Commander. All the items, including TRINITONE (p. 46) and NR (p. 47) return to their original factory settings.

To adjust picture contrast

You can also adjust picture contrast with the PICTURE +/buttons on the Remote Commander.



Press + to increase picture contrast with vivid color. Press - to decrease picture contrast with soft color. The picture adjustment screen appears.

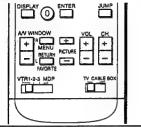
To return to the previous menu Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

### Setting the TRINITONE mode

Color picture tubes are usually manufactured with a fixed color temperature (tint) that determines the "warmth" (red tint) or "coolness" (blue tint) of the picture. Use the Sony Trinitone feature to adjust the picture color to your preference.

Remote Commander



Press MENU. The main menu appears, and the cursor points to "PROG PALETTE."



Press RETURN. The program palette menu appears.



Press A/V WINDOW +/- until the cursor points to "VIDEO."

Press RETURN. The VIDEO screen appears.



Press A/V WINDOW +/- until the cursor points to "TRINITONE."

Press RETURN. The mode display turns red.

Press A/V WINDOW +/- to select "HIGH" or "LOW." Select "HIGH" to make the picture cool (bluish). Select "LOW" to make the picture warm (reddish).

Press RETURN. The setting is complete.

To return to the previous menu Press AV WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

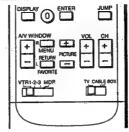
To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

#### Setting NR (picture noise reduction) ON or OFF

Follow these instructions to reduce picture noise.

Remote Commande



Press MENU. The main menu appears, and the cursor points to "PROG



Press RETURN. The program palette menu appears.



Press AV WINDOW +/- until the cursor points to "VIDEO,"

Press RETURN. The VIDEO screen appears. Press AV WINDOW +/- until the cursor points to "NR."



6 Press RETURN.
The mode display to The mode display turns red.

Press A/V WINDOW +/- to select "ON" or "OFF." Select "ON" to reduce picture noise. Select "OFF" to restore the normal picture.

Press RETURN. The setting is complete.

To return to the previous menu Press AV WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

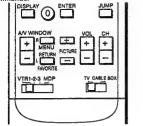
To return to the main menu Repeat the above, until you reach the main menu.

#### Setting S-VIDEO ON or OFF

Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the projection TV. For instructions on connecting video equipment, see pp. 15 - 18.

If the projection TV is in TV, VIDEO 2 or VIDEO 3 mode, the "S-VIDEO" display is shaded and cannot be selected. Press TV/VIDEO on the projection TV or on the Remote Commander to change to VIDEO 1 mode.

Remote Commander



Press MENU. The main menu appears.



Press AV WINDOW +/- until the cursor points to "MODE SET."

Press RETURN. The mode set menu appears, with the cursor pointing to "S-VIDEO."



Press RETURN. The mode display turns red.

Press A/V WINDOW +/- to select "ON" or "OFF,"

Press RETURN. The setting is complete.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

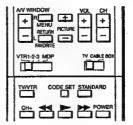
To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

#### Adjusting the sound

Follow these instructions to adjust the TREBLE, BASS and BALANCE.

Remote Commander (with video control cover open)



Press MENU. The main menu appears, and the cursor points to \*PROG PALETTE."



Press RETURN. The program palette menu appears.



Press A/V WINDOW +/- until the cursor points to "AUDIO."

Press RETURN. The AUDIO screen appears.



Press AV WINDOW +/- until the cursor points to the item you want to adjust.

6 Press RETURN.
The adjustment screen appears.



Press A/V WINDOW +/- to make the adjustment.

Sound quality	Press AV WINDOW -	Press AV WINDOW+
TREBLE	To decrease the treble response	To increase the treble response
BASS	To decrease the bass response	To increase the bass response
BALANCE	To emphasize the left speaker's volume	To emphasize the right speaker's volume

Press RETURN. The adjustment is complete, and the AUDIO screen automatically reappears.



To adjust other Items Repeat steps 5 - 9.

To restore the factory settings for all the items Select "STANDARD" on the program palette menu, and press RETURN; or, press STANDARD on the Remote Commander.

All the items, including SRS mode (p. 50) return to their original factory settings.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

### Selecting an SRS (Sound Retrieval System) mode

For lifelike sound reproduction, follow the instructions below to select the SRS mode you prefer.

In SRS AUTO mode, SRS functions in both monaural and stereo modes.

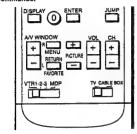
Monaural sound programs will have a 'simulated stereo' effect.

In SRS STEREO mode, SRS functions only when a stereo program is received.

The STEREO lamp on the TV lights up whenever a stereo broadcast is received.

Select SRS OFF mode to return to normal sound mode.

#### Remote Commander



Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



Press RETURN.
The program palette menu appears.



Press AV WINDOW +/- until the cursor points Id "AUDIO."

Press RETURN.
The AUDIO screen appears.



Press A/V WINDOW +/- until the cursor points to the SRS mode you want.

6 Press RETURN.
The mode is selected.

To change the SRS mode Repeat steps 5 - 6.

To return to the previous menu

Press A/V WINDOW +/- until the cursor points to " ⊃ MENU."

Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

#### Selecting an MTS (Multichannel TV Sound) mode

Follow these instructions to select an MTS mode.

Select MAIN mode to listen to stereo sound.

The STEREO lamp on the projection TV lights up whenever a stereo broadcast is received.

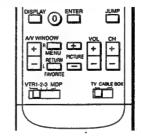
Select SAP mode to listen to Second Audio Programs, Select MONO mode to eliminate excessive noise during stereo broadcasts, caused by a weak incoming signal.

#### Note

If the projection TV iii in video mode, the "MTS" display iii shaded and cannot be selected.

Press TV/VIDEO on the projection TV or on the Remote Commander to change to TV mode.

Remote Commander



Press MENU.
The main menu appears.

Press RETURN.
The mode set menu appears.



Press A/V WINDOW +/- until the cursor points to "MODE SET."

PS-VIDEO :OFF HAIN SPEAKER :HAIN 4 Press AV WINDOW +/- until the cursor points to "MTS."

Press RETURN.
The mode display turns red.

Press A/V WINDOW +/- to select the mode you want, Each time you press A/V WINDOW +/-, "MAIN," "SAP" and "MONO" appear in sequence.

7 Press RETURN.
The mode is selected.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to

□ MENU."
Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

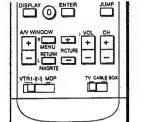
To return to the normal screen Press MENU.

Chapter 3: Using Advanced Features

#### Setting SPEAKER - MAIN or CENTER

Follow these instructions to set SPEAKER to "CENTER" when you connect an audio system (p.19), and to "MAIN" when you want to listen to the sound from the projection TV speakers.

Remote Commander



Press MENU. The main menu appears.



Press AV WINDOW +/- until the cursor points to "MODE SET."

Press RETURN. The mode set menu appears.



Press A/V WINDOW +/- until the cursor points to "SPEAKER."

Press RETURN. The mode display turns red.

Press A/V WINDOW +/- to select "MAIN" or "CENTER."

Press RETURN. The setting is complete.

To return to the previous menu Press AV WINDOW +/-- until the cursor points to Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

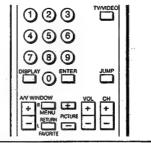
## **Customizing the Screen Display**

#### Setting channel captions — CH CAPTION

Follow these instructions to caption each channel number display with a name, for instance, the television station call letters, (You can set up to four letters or numbers).

Example: Caption channel 15 as "NBC."

Remote Commander



Press MENU. The main menu appears.



Press A/V WINDOW +/- until the cursor points to "SET UP."

Press RETURN. The set up menu appears.



Press A/V WINDOW +/- until the cursor points to "CH CAPTION."

Press RETURN. The CH CAPTION screen appears.



Press CH +/-, or press 1, 5 and ENTER to set channel "15."



Press RETURN. The first caption space turns red.

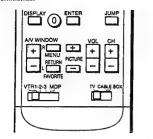
Press A/V WINDOW +/- to select "N." Each time you press AV WINDOW +/-, "0" - "9," "A" - "Z," "&," "/," "-" and "\_" (blank space) appear in sequence.

> ECH CAPTION 15 Select the 1st letter.

Press RETURN. The second caption space turns red.

#### Setting channel captions - CH CAPTION (Cont'd. from prev. page)

Remote Commander



Press A/V WINDOW +/- to select "B."



Press RETURN. The third caption space turns red.

Press A/V WINDOW +/- to select "C."



3 Press RETURN.
The fourth caption The fourth caption space turns red. Press A/V WINDOW +/- to select a blank space.



5 Press RETURN.
The setting is comp The setting is complete. When you select or display the channel number, the channel caption also appears.

To caption more channels Repeat steps 6 - 15.

To erase unnecessary captions

Display the CH CAPTION screen, select the channel with the caption you want to erase, and select blank spaces for the channel caption; then press RETURN. The caption for that channel is erased.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to

" D MENU."

Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

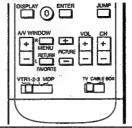
You can set up to 32 channel captions. If the memory is full, "The memory is full, sorry" appears on the screen. Erase any unnecessary captions, and begin again.

#### **Setting VIDEO LABEL**

Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

Example: Label VIDEO 1 IN as "VHS."

Remote Commander



Press MENU. The main menu appears.



Press A/V WINDOW +/- until the cursor points to "SET UP."

Press RETURN. The set up menu appears.



Press A/V WINDOW +/-- until the cursor points to "VIDEO LABEL."

Press RETURN. The VIDEO LABEL screen appears.



Press AV WINDOW +/- until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

Press RETURN. The label display turns red.

Press AV WINDOW +/-- to select "VHS."



Each time you press AV WINDOW +/-, the label changes:

VIDEO 1 VIDEO 1 → BETA → 8mm → VHS → LD → S-VIDEO VIDEO 2 VIDEO 2--> BETA --> 8mm -> VHS--> LD -

VIDEO 3 VIDEO 3--> BETA --> 8mm --> VHS--> LD

The setting is complete. When you select or display the video mode, the video label

To label other input modes Repeat steps 6 - 9.

To change a label Same as above.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to

" > MENU." Then press RETURN,

To return to the main menu Repeat the above, until you reach the main menu.

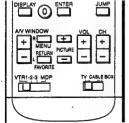
#### Setting DAYLIGHT SAVING

If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the season, before setting the current time. At the next daylight savings date, you will be able to automatically adjust all the time-related settings (CURRENT TIME, ON/OFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT SAVING setting.

#### When setting DAYLIGHT SAVING:

- After the first Sunday in April (apring daylight savings)
   Set I\(\bar{u}\) "YES" before setting the current time.
- Then, on the last Sunday in October (fall daylight savings), set to "NO."
- All the time-related settings automatically move one hour back.
- After the last Sunday in October (fall daylight savings)
   Set to "NO" before setting the current time.
- Then, on the first Sunday in April (spring daylight savings), set to "YES."
- All the time-related settings automatically move one hour ahead.

Remote Commander



Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."

Press MENU.

The main menu appears.



Press A/V WINDOW +/- until the cursor points to "TIME."

3 Press RETURN.
The time menu appears.

⊕ ►CURRENT TIME SET ON/OFF TIMER CHANNEL BLOCK DAYLIGHT SAVING:NO >MENU

Press A/V WINDOW +/- until the cursor points to 
"DAYLIGHT SAVING."

5 Press RETURN.
The mode display turns red.

Press A/V WINDOW +/-- to select "YES" or "NO.".

Press RETURN.
The setting is complete.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to " > MENU."

Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

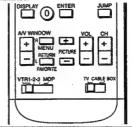
To return to the normal screen.

#### Setting the clock - CURRENT TIME SET

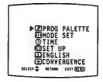
Follow these instructions to set the current time. The correct current time must be set in order to use the other time-related functions (DAYLIGHT SAVING, ON/OFF TIMER, CHANNEL BLOCK).

Example: Set the time to 3:15 PM, Monday.

Remote Commander



Press MENU.
The main menu appears.



Press AV WINDOW +/- until the cursor points to "TIME."

Press RETURN.
The time menu appears, and the cursor points to "CURRENT TIME SET."

TOURRENT TIME SET ON/OFF TIMER CHANKEL BLOCK DAYLIGHT SAVING:NO PMENU

Press RETURN again.
The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING.



If you do not need to set DAYLIGHT SAVING, press RETURN and continue from step 5.

#### To set daylight saving

- Press AV WINDOW +/- until the cursor points to "DAYLIGHT SAVING."
- b Press RETURN.

  The time menu appears, and the cursor points [6 "DAYLIGHT SAVING."
- C Press RETURN.
- d Press AV WINDOW +/- to select "YES" or "NO."
- Press RETURN.

  The setting is complete.

To set the time, press A/V WINDOW +/- until the cursor points to "CURRENT TIME SET"; press RETURN, then continue from step 5.

Fress RETURN.
The CURRENT TIME SET screen appears, and the "SUN" display appears (red).

Fress AV WINDOW +/- to select "MON."

Each time you press AV WINDOW +/-, the day changes consecutively.

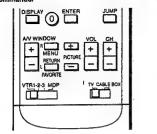
OCURRENT TIME SET

MON 12:00 AM
START

Select today's day.
NUCC \$ MINES TO SET

#### Setting the clock - CURRENT TIME SET (Cont'd. from prev. page)

Remote Commander



Press RETURN. The hour and am/pm displays turn red.

Press A/V WINDOW +/- to set "3:00PM." Each time you press A/V WINDOW +/-, the hour changes in sequence beginning with "12:00AM."



Press RETURN. The minute display turns red.

Press AV WINDOW +/- to select "15" (minutes). Press A/V WINDOW +/- to select "15" (mittutes Each time you press A/V WINDOW +/-, the minutes change in sequence.



Press RETURN. The cursor points to "START."

Check the actual time, and press RETURN to start the clock. The setting is complete.

To reset the time Display the CURRENT TIME SET screen and repeat steps · 5 - 12.

To display the current time Press DISPLAY.

To return to the previous menu Press AV WINDOW +/- until the cursor points to " > MENU," Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

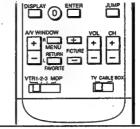
To return to the normal screen. Press MENU.

#### Setting the ON/OFF TIMER

Follow these instructions to make the program of your choice appear on the screen at a specified time.

Example: Set the timer to turn on the projection TV every Monday through Friday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up to three programs.)

Remote Commander



Press MENU. The main menu appears.



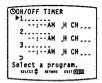
Press AV WINDOW +/-- until the cursor points to "TIME."

Press RETURN. The time menu appears.



Press A/V WINDOW +/- until the cursor points to "ON/OFF TIMER."

Press RETURN. The ON/OFF TIMER screen appears, and the cursor points



To set program 1, press RETURN, (To set program 2 or 3, press AV WINDOW +/- until the cursor points to that program; then press RETURN.) The day input space turns red.

Press A/V WINDOW +/- to select "EVERY MON-FRI": then press RETURN. Each time you press A/V WINDOW +/-, the days of the week change as shown in Fig. 1 (p. 61).

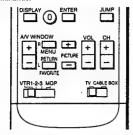


Press AV WINDOW +/- to select "1:00AM"; then 8 press RETURN. Each time you press A/V WINDOW +/-, the hour changes in sequence



#### Setting the ON-OFF TIMER (Cont'd from prev. page)

Remote Commander



Press A/V WINDOW +/- to select "30" (minutes); then press RETURN.

Each time you press AV WINDOW +/-, the minutes change in sequence.

> ON/OFF TIMER 1.EVERY MON-FRI 1:30AM H CH ... 2....AH \_H CH... 3.....AM \_H CH\_\_\_ Set the duration.

Press A/V WINDOW +/- to select "3" (hour duration); then press RETURN. Each time you press AV WINDOW +/-, the duration changes from "1" - "6" in sequence.



Press AV WINDOW +/- to select "8" (channel); then press RETURN.

The TIMER/STAND BY lamp lights, indicating that the setting is complete.

Each time you press A/V WINDOW +/-, the channel

number changes from 1 - 125 in sequence.



The display "TIMER WILL BE OFF" appears on the screen one minute before the timer duration ends.

To set program 2 or 3.

Press RETURN and repeat steps 6 - 11.

To erase an ON/OFF TIMER setting

Display the ON/OFF TIMER screen, select the setting you want to erase, and select a blank space for the day. The ON/OFF TIMER setting is erased.

To enter a new ON/OFF TIMER setting Display the ON/OFF TIMER screen and repeat steps 6 - 11.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to

" > MENU." Then press RETURN.

To return to the main menu

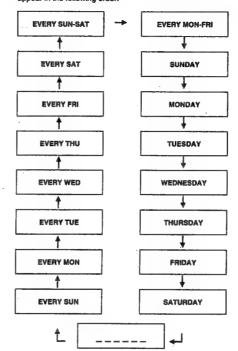
Repeat the above, until you reach the main menu,

To return to the normal screen. Press MENU.

Note

If you unplug the projection TV or a power failure occurs, both the clock and timer settings will be erased. Reset the current time; then

Selecting the day(s) of the week When you press AV WINDOW +, the days of the week appear in the following order:



The components identified by shading and mark are critical for safety.

Replace only with part number specified.

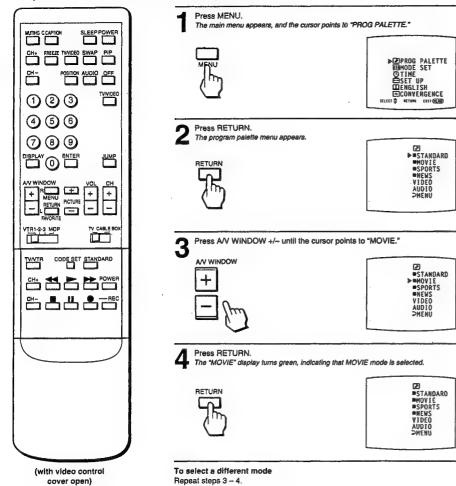
Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
<dio></dio>				<trai< th=""><th>NSISTOR&gt;</th><th></th><th></th><th></th><th></th></trai<>	NSISTOR>				
D801 8-719-928-08 D802 8-719-300-80 D803 8-719-109-85 D804 8-719-911-19 D805 8-719-911-19	DIODE ERD28-08S DIODE RU-1C DIODE RD5.1ES-B2 DIODE 1SS119 DIODE 1SS119		Q801 A Q802 Q803 Q804 Q805	8-729-119-76	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2688-1 A1175-1 C2785-1	.K HFE HFE		
D806 8-719-109-85 D807 8-719-109-85 D808 8-719-911-19 D809 8-719-911-19 D810 8-719-911-19	DIODE RD5.1ES-B2 DIODE RD5.1ES-B2 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		Q806 Q807 Q808 Q809	8-729-119-78 8-729-119-76	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2785-1 C2785-1 A1175-1	HFE HFE HFE		
D811 8-719-109-85 D812 8-719-911-19 D813 8-719-911-19 D814 8-719-911-19 D815 8-719-110-36	DIODE RD5.1ES-B2 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE RD13ES-B2		Q812 Q820 Q851 Q852 Q853	8-729-019-88 8-729-119-76 8-729-119-78 8-729-119-78 8-729-820-98	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1175-I C2785-I C2785-I	HPE HPE HPE		
	DIODE ERCO6-15S DIODE 1SS119			<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
- 0853 A 8-719 903-09	DIODE 188119		R801 R802 R803 R804 R805	1-216-378-11 1-215-926-00 1-215-926-00 1-249-429-11 1-249-423-11	METAL OXIDE METAL OXIDE METAL OXIDE CARBON CARBON	5.6 33K 33K 10K 3.3K	5% 5% 5% 5%	2W 3W 3W 1/4W 1/4W	7 7 7
D892 8-719-110-49			R806 R807 R808 R809 R810	1-249-425-11 1-249-441-11 1-249-417-11 1-249-417-11 1-249-441-11	CARBON CARBON CARBON CARBON CARBON	4.7K 100K 1K 1K 1K 100K	5%%%%% 555555	1/4W 1/4W 1/4W 1/4W 1/4W	
1C801 8-759-231-58 1C802 8-759-103-93 1C803 8-759-990-82 1C804 8-759-103-93 1C805 8-759-100-75	IC TA7812S IC UPC393C IC TL082CP IC UPC393C IC UPC394C		R811 R812 R813 R814 R815	1-249-421-11 1-249-420-11 1-215-921-11 1-249-409-11 1-249-415-11	CARBON CARBON METAL OXIDE CARBON CARBON	2.2K 1.8K 4.7K 220 680	555555555555555555555555555555555555555	1/4W 1/4W 3W 1/4W 1/4W	F
<c01< td=""><td>IL&gt;</td><td></td><td>R816 R817</td><td>1-214-777-00 1-215-471-00</td><td>METAL NETAL</td><td>100K 120K</td><td>1% 1%</td><td>1/4W 1/4W</td><td></td></c01<>	IL>		R816 R817	1-214-777-00 1-215-471-00	METAL NETAL	100K 120K	1% 1%	1/4W 1/4W	
L801 1-459-862-11 L802 1-424-603-11 L803 1-459-313-00 L804 1-410-482-31	COIL, CHOKE 90UH COIL, CHOKE 1.05MMH COIL WITH CORE (HWC) INDUCTOR 100UH		R818 R819 R820	1-215-471-00 1-215-450-00 1-215-451-00	METAL METAL METAL	120K 16K 18K	1% 1% 1%	1/4W 1/4W 1/4W	
	COLL, CHOKE 1.05MMU	THE STATE OF THE S	R821 R822 R823 R824 R825	1-249-423-11 1-249-433-11 1-249-429-11 1-215-469-00 1-215-453-00	CARBON CARBON CARBON METAL METAL	3.3K 22K 10K 100K 22K	5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
N3 *1-508-766-00 N4 *1-564-507-11	PIN, CONNECTOR 3P PLUG, CONNECTOR 5P PIN, CONNECTOR (5MM PITCH) 4P PLUG, CONNECTOR 4P PLUG, CONNECTOR 5P		R826 R827 R828 R829 R830	1-214-962-00 1-214-764-00 1-215-455-00 1-215-455-00 1-215-928-11	METAL METAL METAL METAL METAL OXIDE	820K 30K 27K 27K 68K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 3W	F
N7 *1-508-765-00 N8 *1-508-766-00 N9 1-506-348-99 N10 *1-564-511-41	PIN, CONNECTOR (5MM PITCH) 2P PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 4P PIN, CONNECTOR 3P PLUG, CONNECTOR 8P		R831 R832 R833 R834 R835	1-215-928-11 1-249-417-11 1-249-419-11	METAL OXIDE CARBON	68K 1K 1.5K 1.5K 2.2K	5% 5%	3W 1/4W 1/4W 1/4W 1/4W	F
N21 *1-560-123-00 N30 *1-508-784-00 N851 *1-506-371-00	PLUG, CONNECTOR (2.5MM) 6P PLUG, CONNECTOR (2.5MM) 3P PIN, CONNECTOR (2.5MM PITCH) 1P PIN, CONNECTOR 2P PIN, CONNECTOR 2P		R836 R837 R838 R839 R840	1-215-435-00 1-249-433-11 1-249-435-11 1-249-438-11 1-249-434-11	METAL CARBON CARBON CARBON	3.9K 22K 33K 56K 27K	1% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
	ON LAMP> LAMP, NEON		R841 R842 R843	1-249-429-11 1-249-435-11 1-249-423-11	CARBON CARBON	10K 33K 3.3K	5% 5% 5%	1/4W 1/4W 1/4W	

This projection TV features four modes (STANDARD, MOVIE, SPORTS, NEWS) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

Example: Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater.



#### Selecting standard mode (without using the menus)

Follow these instructions to select standard mode without using the on-screen menus.

Press STANDARD.



Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the previous menu

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal acreen.
Press MENU.

#### When you select STANDARD mode

You receive standard picture and sound quality. Any video or audio adjustments you made ("Adjusting the Projection TV," pp. 44 – 52) are cancelled and the original factory settings are restored.

#### When you select MOVIE mode

You receive a finely detailed picture, and a theatrical audio effect. To further adjust picture and sound qualities, follow the instructions on pp. 44 – 52.

#### When you select SPORTS mode

You receive a vivid, bright picture, and sound with a sports stadium effect. To further adjust picture and sound qualities, follow the instructions on pp. 44 – 52.

#### When you select NEWS mode

Picture noise is reduced, and you receive clear voice reproduction. To further adjust picture and sound qualities, follow the instructions on pp. 44 – 52.

## KP-41EXR96 RM-Y112A

N S

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			•	REMARK	REF, NO.	PART NO.	DESCRIPTION		REMARK
R845 R846 R847	1-249-433-11 1-249-435-11 1-249-429-11 1-214-761-00 1-215-429-00	CARBON CARBON CARBON METAL METAL	22K 33K 10K 22K 2.2K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		T802	1-437-078-11 1-437-090-00	NSFORMER> TRANSFORMER, HORIZONTAL HDT		
R849 R850	1-215-421-00 1-215-429-00	METAL METAL	1K 2.2K	1%	1/4W 1/4W				TRANSFORMER ASSY, PLYBA		
R851 ■ R852 <b>A</b>	1-215-404-00	METAL	200	1%	1/4W 1/4W		i		S BOARD, COMPLETE		
R853	1-215-469-00	METAL	100K		1/4W				*********		
R854 R855 R856 R857 R858	1-249-430-11 1-215-469-00 1-249-430-11 1-249-433-11 1-249-413-11	METAL CARBON CARBON CARBON	12K 100K 12K 22K 470	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W			<cap.< td=""><td>SOCKET, CONNECTOR 2P</td><td></td><td></td></cap.<>	SOCKET, CONNECTOR 2P		
R859 R860 R861 R862 R863		CARBON CARBON CARBON CARBON CARBON	33K 100K 2.2K 27K 15K		1/4W 1/4W 1/4W 1/4W 1/4W		C3408 C3409 C3411	1-164-232-11 1-124-477-11 1-124-034-51	CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.01MF BLECT 47MF BLECT 33MF CERAMIC CHIP 0.0022MF	20% 10%	50V 50V 16V 16V 50V
R864 R865 R866 R867 R868	1-249-423-11 1-249-440-11 1-249-436-11 1-249-437-11 1-249-428-11	CARBON CARBON CARBON CARBON CARBON	3.3K 82K 39K 47K 8.2K		1/4W 1/4W 1/4W 1/4W 1/4W	•	C3447 C3448 C3449	1-163-117-00	CERAMIC CHIP 330PF CERAMIC CHIP 100PF CERAMIC CHIP 0.015MF CERAMIC CHIP 0.0033MF CERAMIC CHIP 47PF	5% 5% 10% 10% 5%	50V 50V 50V 50V 50V
R869 R870 R871 R872 R873	1-249-429-11 1-249-417-11 1-249-440-11 1-249-423-11 1-249-441-11	CARBON CARBON CARBON CARBON CARBON	10K 1K 82K 3.3K 100K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3453 C3454	1-164-004-11 1-163-989-11 1-124-477-11 1-126-162-11 1-126-163-11	BLECT 3.3MF BLECT 4.7MF	10% 10% 20% 20% 20%	25V 25V 16V 50V 16V
R874 R875 R876 R877 R878	1-249-435-11 1-249-421-11	CARBON CARBON METAL CARBON CARBON		5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3456 C3457 C3459 C3460 C3461	I-163-129-00 I-163-117-00 I-124-477-11 I-163-099-00 I-163-099-00	CERAMIC CHIP 100PF ELECT 47MF	5% 5% 20% 5%	50V 50V 16V 50V 50V
R879 R880 R881 R882 R883	1-216-489-11 1-249-429-11		27K 10K 22K 22K 1K	5% 5% 1% 5%	3W 1/4W 1/4W 1/4W 1/4W	F	C3507 C3508 C3509 C3515 C3540	1-164-232-11 1-164-005-11 1-163-139-00 1-163-121-00 1-126-157-11	CBRAMIC CHIP 0.01MF CBRAMIC CHIP 0.47MF CBRAMIC CHIP 820PF CBRAMIC CHIP 150PF BLECT 10MF	10% 5% 20%	50V 25V 50V 50V 16V
R884 R885 R886 R887 R888	1-215-894-11 1-249-438-11 1-249-414-11 1-215-397-00 1-249-410-11	METAL OXIDE CARBON CARBON METAL CARBON	2.2K 56K 560 100 270	5% 5% 5% 1% 5%	2W 1/4W 1/4W 1/4W 1/4W	<u>f</u>		<dio 8-719-404-46 <ic></ic></dio 	DIODE MAILO		
R889 R890 R891 R892 R893	1-249-417-11 1-249-417-11 1-216-489-11 1-249-417-11 1-215-453-00	CARBON CARBON METAL OXIDE CARBON METAL	1 K 1 K 27 K 1 K 22 K	5% 5% 5% 5% 1%	1/4W 1/4W 3W 1/4W 1/4W	F	I C3407 I C3447 I C3447	1 8-759-403-44 2 8-759-070-42 1 8-759-982-21 2 8-759-084-12	IC MN1280-S IC M37201M6-A18FP IC RC78L05A		
R894 R895 R896 R897 R898	1-249-401-11 1-202-731-00 1-260-111-11 1-247-881-00 1-202-730-00	CARBON SOLID CARBON CARBON SOLID	47 10M 10K 120K 8.2M	5% 20% 5% 5% 20%	1/4W 1/2W 1/2W 1/4W 1/2W		1	4 8-759-403-44 <c01< td=""><td>IC MN1280-S</td><td></td><td></td></c01<>	IC MN1280-S		
R899 R903 R904 R905	1-249-429-11 1-247-735-11 1-215-928-11 1-215-911-11	METAL OXIDE	10K 47 68K 100	5% 20% 5% 5%	1/4W 1/2W 3W 3W	F F	1 L3461	1-408-421-00 1-408-409-00 1-408-421-00	INDUCTOR 10UH		
	<sp <="" td=""><td>ARK GAP&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td>ANSISTOR&gt;</td><td></td><td></td></sp>	ARK GAP>							ANSISTOR>		
SG801	1-519-422-11	GAP, SPARK							TRANSISTOR 2SD601A-Q TRANSISTOR FMW1		



REF.NO. PART	. NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	<res< td=""><td>STOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td>******</td><td></td><td></td><td></td><td></td></res<>	STOR>						******				
R3401 1-2			1K	5%	1/10₩			************** *A-1394-422-A	U BOARD, COM	PLETE *****		
R3402 1-2 R3403 1-2 R3404 1-2	16-073-00 16-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 220	5% 5%	1/10W 1/10W			<caf< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td></caf<>	PACITOR>			
R3406 1-2	16-065-00	METAL GLAZE	4.7K 220	5%	1/10W		C1004 C1005	1-102-125-00 1-126-301-11	CERAMIC ELECT	0.0047MF 1MF	10% 20%	50V 50V
R3408 1-2 R3409 1-2	16-065-00 16-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 220 100	5% 5%	1/10W 1/10W 1/10W	·	C1006 C1007 C1008	1-164-096-11 1-124-598-11 1-124-598-11	ELECT ELECT	0.01MF 22MF 22MF	20% 20%	50V 25V 25V
R3442 1-2	16-041-00	METAL GLAZE	100 470	5% 5%	1/10W		C1010 C1011	1-124-465-00 1-124-465-00	ELECT ELECT	0.47MF 0.47MF	20% 20%	50V 50V
R3444 1-2 R3445 1-2	16-077-00 16-689-11	METAL GLAZE METAL GLAZE METAL GLAZE	470 470 15K 39K 33K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C1012 C1013 C1014	*A-1394-422-A <cap 1-102-125-00="" 1-124-465-00="" 1-124-465-01="" 1-124-598-11="" 1-126-163-11<="" 1-126-301-11="" 1-164-096-11="" td=""><td>ELECT CERAMIC ELECT</td><td>0.47MF 0.0047MF 4.7MF</td><td>20% 10% 20%</td><td>50V 50V 50V</td></cap>	ELECT CERAMIC ELECT	0.47MF 0.0047MF 4.7MF	20% 10% 20%	50V 50V 50V
R3446 1-2 R3449 1-2	16-085-00 16-073-00	METAL GLAZE	33K 10K	5% 5%	1/10W 1/10W		C1016 C1018	1-126-163-11 1-126-163-11 1-126-301-11 1-124-242-00 1-124-465-00 1-124-242-00 1-102-949-00	ELECT ELECT	4.7MF 1MF	20% 20%	50V 50V
R3450 1-2 R3451 1-2	16-057-00 16-093 <b>-</b> 00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 68K 18K	5% 5% 5%	1/10W 1/10W 1/10W		C1020 C1021 C1022	1-124-242-00 1-124-465-00 1-124-242-00	ELECT ELECT ELECT	33MF 0.47MF 33MF	20% 20% 20%	25V 50V 25V
R3453 1-2	16-679-11	METAL CHIP METAL GLAZE	15K 330	0.50% 5%	1/10W		C1026	1-124-242-00 1-102-949-00 1-102-949-00 1-124-242-00 1-124-282-00 1-124-478-11 1-102-963-00	CERAMIC CERAMIC	12PF 12PF	5% 5%	50 V 50 V
R3455 1-2	16-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 15K	5% 5%	1/10W 1/10W		C1028 C1029	1-124-242-00 1-124-282-00 1-124-478-11	ELECT ELECT ELECT	12PF 12PF 33MF 22MF 100MF	20% 20% 20%	25V 16V 25V
R3464 1-2	16-073-00	METAL GLAZE	10K	5%	1/10W	٠	C1031	1-124-478-11 1-102-963-00 1-124-598-11 1-124-282-00 1-124-282-00 1-124-282-00 1-124-478-11 1-124-465-00 1-124-598-11 1-124-598-11 1-124-465-00 1-124-768-11 1-124-768-11 1-124-499-11 1-124-499-11	CERAMIC	33PF	5%	50V 25V
R3472 1-2 R3473 1-2	16-091-00 16-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 56K 100 0 2.2K	5% 5%	1/10W 1/10W		C1034 C1036	1-124-282-00 1-124-282-00	ELECT ELECT	22MF 22MF	20%	16V 16V
R3504 1-2	16-057-00	METAL GLAZE METAL GLAZE	2.2K	5% 5%	1/10W 1/10W		C1037	1-124-282-00	ELECT	100MF	20%	16V 25V
R3511 1-2 R3512 1-2	16-025-00 16-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 100 2.7K 2.7K 2.7K	5% 5% 5%	1/10W 1/10W 1/10W		C1047 C1048 C1049	1-124-465-00 1-126-301-11 1-124-598-11	ELECT ELECT	0.47MF 1MF 22MF	20% 20% 20%	50V 50V 25V
R3513 1-2	16-059 <b>-</b> 00 16-059 <b>-</b> 00	METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		C1051	1-124-465-00 1-124-589-11	ELECT	0.47MF 47MF	20% 20%	50V 16V
R3520 1-2	16-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K 0 1 O K	5% 5%	1/10W 1/10W 1/10W		C1056 C1057	1-124-499-11 1-124-768-11 1-124-499-11	ELECT ELECT RLECT	1MF 4.7MF 1MF	20% 20% 20%	50V 50V 50V
R3525 1-2	16-295-00	METAL GLAZE METAL GLAZE	0 10K	5% 5%	1/10W 1/10W		C1060	1-124-499-11	ELECT FLECT	împ 1mp	20% 20%	50V
R3529 1-2	16-295-00	METAL GLAZE	0	5% 5%	1/10W		C1063	1-124-499-11 1-102-129-00 1-124-768-11	ELECT	0.01MF 4.7MF 100MF	10% 20% 20%	50V 50V 16V
R3531 1-2	16-073-00 16-073-00 16-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K - 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W		C1000	1-126-101-11		TOOM	20%	104
R3537 1-2		METAL GLAZE METAL GLAZE	220 0	5% 5%	1/10W 1/10W		CM100	اد>1-466-162-31	OCK> BLOCK, COM	FILTER (CFB-	4)	
R3540 1-2		METAL GLAZE	10K	5 <b>%</b>	1/10W			1@>	ODE>			
S42 *1-5		NECTOR> PIN, CONNEC	TOR AP				D1005	8-719-110-36 8-719-110-36	DIODE RD13E	S-B2 S-B2		
S43 *1-5 S45 *1-5	64-508-11 64-511-71	PLUG, CONNE PLUG, CONNE PLUG, CONNE	CTOR 5P CTOR 8P				D1010 D1011	8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13E	S-B2 S-B2		
\$46 *1-5 \$47 *1-5	64-506-11	PLUG, CONNE	CTOR 3P				D1013	8-719-110-36	DIODE RD13E	S-B2		
		STAL>					D1018	8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13E DIODE RD13E	S-B2 S-B2		
		VIBRATOR, C VIBRATOR, C					D1020	8-719-109-66 8-719-109-66	DIODE RD3.3	ES-B2		
							, - 2041	J . 15 105 00				



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
D1022 8-719-109-66 <1C>	DESCRIPTION  DIODE RD3.3ES-B2  IC CXA1545S IC UPC4557C  L>  INDUCTOR 120UH INDUCTOR 120UH INDUCTOR 120UH INDUCTOR 120UH  NSISTOR>  TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC1785-HFE TRANSISTOR 2SA1175-HFE TRANSI		R1059 R1061 R1062 R1063 R1066	1-249-405-11 1-249-409-11 1-249-441-11 1-249-409-11 1-215-437-00	CARBON CARBON CARBON CARBON METAL	100 5% 220 5% 100K 5% 220 5% 4.7K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
1C1002 8-752-056-50 1C1011 8-759-145-57 <c01< td=""><td>1C CXA1545S 1C UPC4557C</td><td></td><td>R1067 R1068 R1069 R1070</td><td>1-215-437-00 1-215-437-00 1-215-437-00 1-249-411-11</td><td>METAL METAL METAL CARBON CARBON</td><td>4.7K 1% 4.7K 1% 4.7K 1% 330 5%</td><td>1/4W 1/4W 1/4W 1/4W 1/4W</td><td></td></c01<>	1C CXA1545S 1C UPC4557C		R1067 R1068 R1069 R1070	1-215-437-00 1-215-437-00 1-215-437-00 1-249-411-11	METAL METAL METAL CARBON CARBON	4.7K 1% 4.7K 1% 4.7K 1% 330 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
L1001 1-408-422-00 L1002 1-408-422-00	INDUCTOR 120UH INDUCTOR 120UH		R1077 R1077 R1077 R1078	1-249-431-11 1-249-418-11 1-249-418-11 1-249-405-11	CARBON CARBON CARBON CARBON	15K 5% 1.2K 5% 1.2K 5%	1/4W 1/4W 1/4W 1/4W	
01009 8-729-119-78	TRANSISTOR 2SC2785-HFR		R1080	1-215-423-00	METAL	1.2K 1%	1/40	
01010 8-729-119-78 01016 8-729-119-76 01017 8-729-119-76 01018 8-729-141-26	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC3622A-LK		R1081 R1089 R1094 R1096 R1099	1-215-421-00 1-249-405-11 1-249-405-11 1-249-405-11 1-249-413-11	METAL CARBON CARBON CARBON- CARBON	1K 1% 100 5% 100 5% 100 5% 470 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q1019 8-729-119-76 Q1020 8-729-119-76 Q1021 8-729-119-76 Q1022 8-729-141-26 Q1023 8-729-119-78	TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC3622A-LK TRANSISTOR 2SC2785-HFE	•	R1110 R1116 R1118 R1121 R1133	1-249-405-11 1-249-441-11 1-249-413-11 1-249-441-11	CARBON CARBON CARBON CARBON CARBON	100 5% 100K 5% 470 5% 100K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q1029     8-729-119-76       Q1030     8-729-119-78       Q1031     8-729-119-78       Q1032     8-729-119-76       Q1033     8-729-119-76	TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE		R1134 R1137 R1138 R1139	1-249-405-11 1-249-411-11 1-249-415-11 1-249-413-11	CARBON CARBON CARBON CARBON	100 5% 330 5% 680 5% 470 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q1034 8-729-119-76	TRANSISTOR 2SA1175-HFE		R1140	1-249-413-11	CARRON	470 5%	1/4W	
<res< td=""><td>SISTOR&gt;</td><td></td><td>R1142 R1147</td><td>1-249-415-11</td><td>CARBON CARBON</td><td>680 5% 100 5%</td><td>1/4W 1/4W</td><td></td></res<>	SISTOR>		R1142 R1147	1-249-415-11	CARBON CARBON	680 5% 100 5%	1/4W 1/4W	
R1011 1-249-435-11	CARBON 33K 5%	1/4W	R1148 R1149	1-249-405-11 1-249-417-11	CARBON CARBON	100 5% 1K 5%	1/4W 1/4W	
R1012	CARBON 27K 5% CARBON 1K 5% CARBON 100K 5% CARBON 4.7K 5%	1/4W 1/4W 1/4W 1/4W	R1150 R1151 R1152	1-249-405-11 1-249-405-11 1-249-417-11	CARBON CARBON CARBON	100 5% 100 5% 1K 5%	1/4W 1/4W 1/4W	
R1016 1-249-441-11 R1017 1-249-405-11	CARBON 100K 5% CARBON 100 5%	1/4W 1/4W		<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td></con<>	NECTOR>			
R1018 1-249-427-11 R1019 1-249-427-11 R1023 1-249-405-11 R1026 1-249-425-11 R1028 1-249-434-11	CARBON 6.8K 5% CARBON 100 5%	1/4W 1/4W 1/4W 1/4W 1/4W	U12 U13 U16 U22 U23	1-573-300-11 1-573-300-11 *1-564-513-11 1-566-942-11 *1-566-367-11	CONNECTOR, BO CONNECTOR, BO PLUG, CONNECTOR, HID CONNECTOR, HID CONNECTOR, HID	DARD TO BOAR DARD TO BOAR FOR 10P NGE (RECEPTAC INGE (RECEPT	D 18P D 18P LE)30P ACLE)	
R1029 1-249-435-11 R1030 1-249-417-11	CARBON 1K 5%	1/4W 1/4W	U47	*1-564-506-11	PLUG, CONNEC	TOR 3P		
R1032 1-249-417-11 R1033 1-249-393-11		1/4W 1/4W F	*****	********	*******	******	*****	*******
R1034 1-249-417-11 R1036 1-249-440-11 R1037 1-249-440-11 R1038 1-249-440-11	CARBON 1K 5% CARBON 82K 5% CARBON 82K 5%	1/4W 1/4W 1/4W 1/4W		*A-1394-432-A	*******			
R1043 1-249-417-11	CARBON 1K 5%	1/4W			ACITOR>			
R1046 1-249-413-11 R1048 1-249-405-11 R1050 1-249-405-11 R1051 1-249-417-11	CARBON 100 5% CARBON 100 5% CARBON 1K 5%	1/4W 1/4W 1/4W 1/4W	C1154 C1155 C1158	1-102-074-00 1-164-096-11 1-126-103-11 1-124-598-11 1-124-598-11	CERAMIC CERAMIC ELECT ELECT ELECT	0.001MF 0.01MF 470MF 22MF 22MF	10% 20% 20% 20%	50V 50V 16V 25V 25V
R1052 1-249-413-11 R1054 1-249-405-11 R1055 1-249-413-11 R1056 1-249-405-11 R1057 1-249-441-11	CARBON 100 5% CARBON 470 5% CARBON 100 5%	1/4W 1/4W 1/4W 1/4W 1/4W	C1161 C1164 C1165 C1166	1-124-598-11 1-126-103-11 1-126-301-11	ELECT ELECT ELECT ELECT ELECT	22MF 470MF 1MF 1MF 1MF	20% 20% 20% 20% 20%	25V 16V 50V 50V 50V

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

S1150 1-572-198-11 SWITCH, KEYBOARD

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

 The components identified by 

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

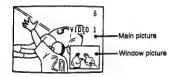
# KP-41EXR96 RM-Y112A



REF	.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
€1	199	1-126-301-11 1-102-129-00 1-102-129-00	CERAMIC	1MF 0.01MF 0.01MF		20% 10% 10%	50V 50V 50V	111711		ONNECTOR>	
		<dio< td=""><td>DE&gt;</td><td></td><td></td><td></td><td></td><td>UT22 UT23</td><td>*1-566-941-11 *1-566-641-11</td><td>CONNÉCTOR, HINGE (TAB) 30 CONNECTOR, HINGE (TAB) 18 PLUG, CONNECTOR 3P</td><td>)P BP</td></dio<>	DE>					UT22 UT23	*1-566-941-11 *1-566-641-11	CONNÉCTOR, HINGE (TAB) 30 CONNECTOR, HINGE (TAB) 18 PLUG, CONNECTOR 3P	)P BP
D 1 D 1 D 1	1158 1159 1160	8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13ES- DIODE RD13ES- DIODE RD13ES-	-B2 -B2 -B2				}	**************************************	EXECULATEDUS	********
D 1 D 1 D 1	1165 1166 1167	8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13ES- DIODE RD13ES- DIODE RD13ES-	-B2 -B2 -B2				4	<b>∆</b> 1-451-396-2 <b>∆</b> 1-452-443-1 <b>∆</b> 1-453-108-1	RESISTOR ASSY (HIGH-VOLT DEFLECTION YOKE (Y936PA) NECK ASSY, PICTURE TUBE(I DC BLOCK, HIGH-VOLTAGE SPEAKER (13CM) (COAXIAL)	NA367)
Đ1 D1	1169 1170	8-719-110-36 8-719-110-36	DIODE RD13ES- DIODE RD13ES-	-B2 -B2					*1-555-110-00 1-561-306-00	) JACK, PIN (F)	
		<jac< td=""><td>K&gt;</td><td></td><td></td><td></td><td></td><td>V902.</td><td>1-574-590-3 1-696-002-1 1 8-736-631-0</td><td>I LEAD ASSY, HIGH-VOLTAGE 2 CORD, POWER (WITH NOISE 5 PICTURE TUBE (SD-249 (G)</td><td>Filter) )</td></jac<>	K>					V902.	1-574-590-3 1-696-002-1 1 8-736-631-0	I LEAD ASSY, HIGH-VOLTAGE 2 CORD, POWER (WITH NOISE 5 PICTURE TUBE (SD-249 (G)	Filter) )
J1	1001	1-537-187-11 1-573-970-11	TERMINAL, PUS BLOCK, (S) TI	SH (4P) ERMINAL				V903 /	<b>A</b> . 8-736-632-0 <b>A</b> . 8-736-633-0	5 PICTURE TUBE (SD-249 (B) 5 PICTURE TUBE (SD-249 (R)	
J:	1004 1005 1006	1-573-970-11 1-695-049-11 1-695-054-11 1-573-970-11	JACK BLOCK, (S) TI BLOCK, (S) TI	BRMINAL PIN ERMINAL				MR900 2 MR901 2 MR902	<b>^</b>	METAL FILM METAL FILM METAL FILM	1/40 1/40 1/40
		1-573-969-11 1-573-969-11								**********	COLCEAN THE MACHINE CONTRACTOR SET AND THE PRODUCT OF STATE ST
		<res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td>ORIES AND PACKING MATERIALS</td><td></td></res<>	SISTOR>							ORIES AND PACKING MATERIALS	
R R R	1164 1165 1166	1-249-403-11 1-247-895-00 1-247-895-00 1-247-895-00 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	68 470K 470K 470K 470K	5%	1/4W 1/4W 1/4W 1/4W 1/4W			*3-704-356-0 3-756-987-2 3-756-987-3 3-756-987-4 *4-030-895-0	1 MANUAL, INSTRUCTION 1 MANUAL, INSTRUCTION (KP- 1 MANUAL, INSTRUCTION (KP-	41EXR96(C))
R R R		1-247-895-00 1-249-403-11 1-249-403-11 1-247-895-00 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	470K 68 68 470K 470K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W			*4-036-102-0 *4-036-106-0 *4-036-107-0 *4-036-108-0 *4-381-155-0	1 INDIVIDUAL CARTON 1 TRAY 1 CUSHION (LOWER) (ASSY)	
R R R		1-247-804-11 1-247-895-00 1-247-895-00 1-247-804-11 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	75 470K 470K 75 470K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W			R 1-693-114-2 9-902 719-0		2A)
R R R	1179 1180 1181 1183	1-247-895-00 1-247-804-11 1-247-804-11 1-247-895-00 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	470K 75 75 470K 470K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W			9-998-214-0		(112A)
R R R	1185 1186 1188 1191 1192	1-247-895-00 1-247-895-00 1-247-804-11 1-249-425-11 1-249-425-11	CARBON CARBON CARBON CARBON CARBON	470K 470K 75 4.7K 4.7K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W					
R	1193 1194 1196	1-249-425-11 1-249-425-11 1-249-426-11	CARBON CARBON CARBON	4.7K 4.7K 5.6K	5% 5% 5%	1/4W 1/4W 1/4W					
		<sw1< td=""><td>TCH&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></sw1<>	TCH>								

## **Watching Two Pictures at Once (PIP)**

You can watch both the main picture and a window picture simultaneously, using the Picture-in-Picture (PIP) function. KP-41EXR96 in equipped with one-tuner PIP. To watch two TV channels simultaneously, you must first connect a VCR to the projection TV, which will enable you to watch a second TV channel through the VCR tuner. (See "Connecting Other Equipment," pp. 15-19.) Other models are equipped with two-tuner PIP, allowing you



to watch two TV channels at once.

#### Picture-in-Picture special features

When watching the main picture and a window picture.

- . Swap the main and window pictures (SWAP).
- . Change the position of the window picture (POSITION).

. The window picture sound is also output from the AUDIO (VAR)

. The video label and channel caption will not appear with the

OUT jacks. The AUDIO OUT and MONITOR OUT jacks output

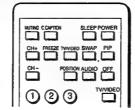
· If you select a blocked channel in the window picture, the display

"BLOCKED" appears with the window picture. (See "Setting

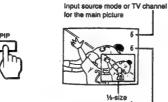
- · Display a still picture (FREEZE).
- · Choose the sound from the main or window picture (AUDIO).

#### Displaying a window picture

Remote Commander



Press PIP to display a window picture



input source mode or TV channel for the window picture





A window picture appears in the last mode you watched. Each time you press PIP, a 1/9 or 1/16 size window picture appears alternately.

To turn PIP function off Press OFF.

The window picture disappears.

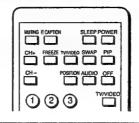
To receive the window picture sound Press AUDIO.

The D display appears for a few seconds, indicating that the window picture sound is being received.

To restore the main picture sound Press AUDIO again.

#### Changing the window picture input mode

Remote Commander



Press PIP to display a window picture.





Press TV/VIDEO in the Picture-in-Picture control area to select the input mode. Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.

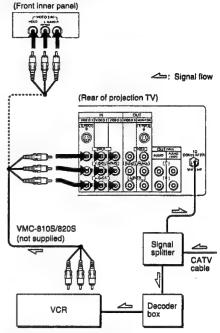




To change TV channels in the window picture Press CH +/- in the PIP control area.

#### Displaying CATV input as a window picture

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below.



After making the above connections, turn the cable connection on by following the steps on pp. 26 - 27; then continue with the steps below.

Follow steps 1 - 2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR.

Put your VCR on an inactive channel (channel 3 or 4).

Change pay cable TV channels with the decoder box.

To control your cable converter box with the supplied Remote Commander See p. 70.

Notes

the main picture sound only.

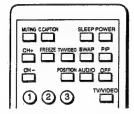
window picture even if you have set them.

CHANNEL BLOCK," pp. 62 ~ 63.)

#### Changing the position of the window picture

Follow these instructions to change the position of the window picture on the screen.

#### Remote Commander



Press PiP to display a window picture.





Press POSITION. Each time you press POSITION, the window picture moves as illustrated.

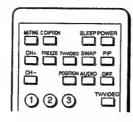




#### Displaying a still picture

Use the FREEZE function to display a still picture. This function is useful when you want to write down a recipe from a cooking program, a displayed address or phone number and so on.

#### Remote Commander



Press PIP to display a window picture.





Press FREEZE. The window picture image remains still on the screen.



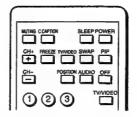


To restore the normal picture Press FREEZE again.

#### Swapping the main and window pictures

Follow these instructions to swap the input signals of the main and window pictures.

#### Remote Commander



Press PIP to display a window picture.





Press SWAP. Each time you press SWAP, the images from the main and window pictures switch places.





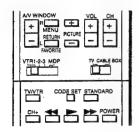
## Adjusting the Projection TV

You can adjust the picture and sound for each input mode (TV, VIDEO 1, VIDEO 2, VIDEO 3) by pressing TV/VIDEO on the projection TV or on the Remote Commander to select the input mode, before making the adjustments. These adjustments are retained in memory even when you turn off the projection TV, but are cancelled after you change the adjustments, or select a picture and sound mode (pp. 38 - 39).

#### Adjusting the picture

Follow these instructions to adjust PICTURE, HUE, COLOR, BRIGHT (brightness) and SHARP (sharpness).

Remote Commander (with video control cover open)



Press MENU. The main menu appears, and the cursor points in \*PROG PALETTE."



Press RETURN. The program palette menu appears.



Press AV WINDOW +/-- until the cursor points to "VIDEO."

Press RETURN. The VIDEO screen appears.



Press A/V WINDOW +/- until the cursor points to the item you want to adjust.



Press AV WINDOW +/- to make the adjustment.

Picture quality	Press A/V WINDOW -	Press A/V WINDOW +
PICTURE	For decreased picture contrast with soft color	For increased picture with vivid color
HUÉ	Skin tones become purplish	Skin tones become greenish
COLOR	For less color intensity	For more color intensity
BRIGHT	For less brightness	For more brightness
SHARP	For less sharpness	For more sharpness

Press RETURN. The adjustment is complete, and the VIDEO screen automatically reappears.



To adjust other items Repeat steps 5 - 8.

To restore the factory settings for all the items Select "STANDARD" on the program palette menu, and or, press STANDARD on the Remote Commander. All the items, including TRINITONE (p. 46) and NR (p. 47) return to their original factory settings.

To adjust picture contrast

You can also adjust picture contrast with the PICTURE +/buttons on the Remote Commander.



Press + to increase picture contrast with vivid color. Press - to decrease picture contrast with soft color. The picture adjustment screen appears.

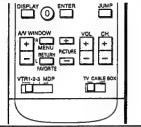
To return to the previous menu Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

### Setting the TRINITONE mode

Color picture tubes are usually manufactured with a fixed color temperature (tint) that determines the "warmth" (red tint) or "coolness" (blue tint) of the picture. Use the Sony Trinitone feature to adjust the picture color to your preference.

Remote Commander



Press MENU. The main menu appears, and the cursor points to "PROG PALETTE."



Press RETURN. The program palette menu appears.



Press A/V WINDOW +/- until the cursor points to "VIDEO."

Press RETURN. The VIDEO screen appears.



Press A/V WINDOW +/- until the cursor points to "TRINITONE."

Press RETURN. The mode display turns red.

Press A/V WINDOW +/- to select "HIGH" or "LOW." Select "HIGH" to make the picture cool (bluish). Select "LOW" to make the picture warm (reddish).

Press RETURN. The setting is complete.

To return to the previous menu Press AV WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

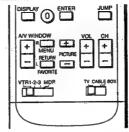
To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

#### Setting NR (picture noise reduction) ON or OFF

Follow these instructions to reduce picture noise.

Remote Commande



Press MENU. The main menu appears, and the cursor points to "PROG



Press RETURN. The program palette menu appears.



Press AV WINDOW +/- until the cursor points to "VIDEO,"

Press RETURN. The VIDEO screen appears. Press AV WINDOW +/- until the cursor points to "NR."



6 Press RETURN.
The mode display to The mode display turns red.

Press A/V WINDOW +/- to select "ON" or "OFF." Select "ON" to reduce picture noise. Select "OFF" to restore the normal picture.

Press RETURN. The setting is complete.

To return to the previous menu Press AV WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

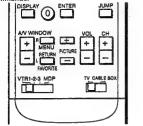
To return to the main menu Repeat the above, until you reach the main menu.

#### Setting S-VIDEO ON or OFF

Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the projection TV. For instructions on connecting video equipment, see pp. 15 - 18.

If the projection TV is in TV, VIDEO 2 or VIDEO 3 mode, the "S-VIDEO" display is shaded and cannot be selected. Press TV/VIDEO on the projection TV or on the Remote Commander to change to VIDEO 1 mode.

Remote Commander



Press MENU. The main menu appears.



Press AV WINDOW +/- until the cursor points to "MODE SET."

Press RETURN. The mode set menu appears, with the cursor pointing to "S-VIDEO."



Press RETURN. The mode display turns red.

Press A/V WINDOW +/- to select "ON" or "OFF,"

Press RETURN. The setting is complete.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

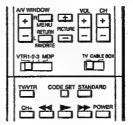
To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

#### Adjusting the sound

Follow these instructions to adjust the TREBLE, BASS and BALANCE.

Remote Commander (with video control cover open)



Press MENU. The main menu appears, and the cursor points to \*PROG PALETTE."



Press RETURN. The program palette menu appears.



Press A/V WINDOW +/- until the cursor points to "AUDIO."

Press RETURN. The AUDIO screen appears.



Press AV WINDOW +/- until the cursor points to the item you want to adjust.

6 Press RETURN.
The adjustment screen appears.



Press A/V WINDOW +/- to make the adjustment.

Sound quality	Press AV WINDOW -	Press AV WINDOW+
TREBLE	To decrease the treble response	To increase the treble response
BASS	To decrease the bass response	To increase the bass response
BALANCE	To emphasize the left speaker's volume	To emphasize the right speaker's volume

Press RETURN. The adjustment is complete, and the AUDIO screen automatically reappears.



To adjust other Items Repeat steps 5 - 9.

To restore the factory settings for all the items Select "STANDARD" on the program palette menu, and press RETURN; or, press STANDARD on the Remote Commander.

All the items, including SRS mode (p. 50) return to their original factory settings.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

### Selecting an SRS (Sound Retrieval System) mode

For lifelike sound reproduction, follow the instructions below to select the SRS mode you prefer.

In SRS AUTO mode, SRS functions in both monaural and stereo modes.

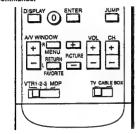
Monaural sound programs will have a 'simulated stereo' effect.

In SRS STEREO mode, SRS functions only when a stereo program is received.

The STEREO lamp on the TV lights up whenever a stereo broadcast is received.

Select SRS OFF mode to return to normal sound mode.

#### Remote Commander



Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



Press RETURN.
The program palette menu appears.



Press AV WINDOW +/- until the cursor points Id "AUDIO."

Press RETURN.
The AUDIO screen appears.



Press A/V WINDOW +/- until the cursor points to the SRS mode you want.

6 Press RETURN.
The mode is selected.

To change the SRS mode Repeat steps 5 - 6.

To return to the previous menu

Press A/V WINDOW +/- until the cursor points to " ⊃ MENU."

Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

#### Selecting an MTS (Multichannel TV Sound) mode

Follow these instructions to select an MTS mode.

Select MAIN mode to listen to stereo sound.

The STEREO lamp on the projection TV lights up whenever a stereo broadcast is received.

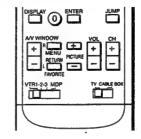
Select SAP mode to listen to Second Audio Programs, Select MONO mode to eliminate excessive noise during stereo broadcasts, caused by a weak incoming signal.

#### Note

If the projection TV iii in video mode, the "MTS" display iii shaded and cannot be selected.

Press TV/VIDEO on the projection TV or on the Remote Commander to change to TV mode.

Remote Commander



Press MENU.
The main menu appears.

Press RETURN.
The mode set menu appears.



Press A/V WINDOW +/- until the cursor points to "MODE SET."

PS-VIDEO :OFF HAIN SPEAKER :HAIN 4 Press AV WINDOW +/- until the cursor points to "MTS."

Press RETURN.
The mode display turns red.

Press A/V WINDOW +/- to select the mode you want, Each time you press A/V WINDOW +/-, "MAIN," "SAP" and "MONO" appear in sequence.

7 Press RETURN.
The mode is selected.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to

□ MENU."
Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

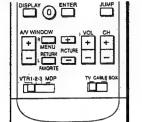
To return to the normal screen Press MENU.

Chapter 3: Using Advanced Features

#### Setting SPEAKER - MAIN or CENTER

Follow these instructions to set SPEAKER to "CENTER" when you connect an audio system (p.19), and to "MAIN" when you want to listen to the sound from the projection TV speakers.

Remote Commander



Press MENU. The main menu appears.



Press AV WINDOW +/- until the cursor points to "MODE SET."

Press RETURN. The mode set menu appears.



Press A/V WINDOW +/- until the cursor points to "SPEAKER."

Press RETURN. The mode display turns red.

Press A/V WINDOW +/- to select "MAIN" or "CENTER."

Press RETURN. The setting is complete.

To return to the previous menu Press AV WINDOW +/-- until the cursor points to Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

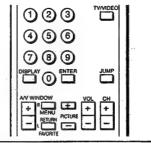
## **Customizing the Screen Display**

#### Setting channel captions — CH CAPTION

Follow these instructions to caption each channel number display with a name, for instance, the television station call letters, (You can set up to four letters or numbers).

Example: Caption channel 15 as "NBC."

Remote Commander



Press MENU. The main menu appears.



Press A/V WINDOW +/- until the cursor points to "SET UP."

Press RETURN. The set up menu appears.



Press A/V WINDOW +/- until the cursor points to "CH CAPTION."

Press RETURN. The CH CAPTION screen appears.



Press CH +/-, or press 1, 5 and ENTER to set channel "15."



Press RETURN. The first caption space turns red.

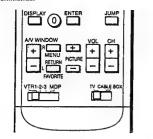
Press A/V WINDOW +/- to select "N." Each time you press AV WINDOW +/-, "0" - "9," "A" - "Z," "&," "/," "-" and "\_" (blank space) appear in sequence.

> ECH CAPTION 15 Select the 1st letter.

Press RETURN. The second caption space turns red.

#### Setting channel captions - CH CAPTION (Cont'd. from prev. page)

Remote Commander



Press A/V WINDOW +/- to select "B."



Press RETURN. The third caption space turns red.

Press A/V WINDOW +/- to select "C."



3 Press RETURN.
The fourth caption The fourth caption space turns red. Press A/V WINDOW +/- to select a blank space.



5 Press RETURN.
The setting is comp The setting is complete. When you select or display the channel number, the channel caption also appears.

To caption more channels Repeat steps 6 - 15.

To erase unnecessary captions

Display the CH CAPTION screen, select the channel with the caption you want to erase, and select blank spaces for the channel caption; then press RETURN. The caption for that channel is erased.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to

" D MENU."

Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

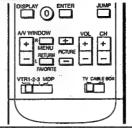
You can set up to 32 channel captions. If the memory is full, "The memory is full, sorry" appears on the screen. Erase any unnecessary captions, and begin again.

#### **Setting VIDEO LABEL**

Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

Example: Label VIDEO 1 IN as "VHS."

Remote Commander



Press MENU. The main menu appears.



Press A/V WINDOW +/- until the cursor points to "SET UP."

Press RETURN. The set up menu appears.



Press A/V WINDOW +/-- until the cursor points to "VIDEO LABEL."

Press RETURN. The VIDEO LABEL screen appears.



Press AV WINDOW +/- until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

Press RETURN. The label display turns red.

Press AV WINDOW +/-- to select "VHS."



Each time you press AV WINDOW +/-, the label changes:

VIDEO 1 VIDEO 1 → BETA → 8mm → VHS → LD → S-VIDEO VIDEO 2 VIDEO 2--> BETA --> 8mm -> VHS--> LD -

VIDEO 3 VIDEO 3--> BETA --> 8mm --> VHS--> LD

The setting is complete. When you select or display the video mode, the video label

To label other input modes Repeat steps 6 - 9.

To change a label Same as above.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to

" > MENU." Then press RETURN,

To return to the main menu Repeat the above, until you reach the main menu.

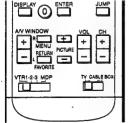
#### Setting DAYLIGHT SAVING

If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the season, before setting the current time. At the next daylight savings date, you will be able to automatically adjust all the time-related settings (CURRENT TIME, ON/OFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT SAVING setting.

#### When setting DAYLIGHT SAVING:

- After the first Sunday in April (apring daylight savings)
   Set I\(\bar{u}\) "YES" before setting the current time.
- Then, on the last Sunday in October (fall daylight savings), set to "NO."
- All the time-related settings automatically move one hour back.
- After the last Sunday in October (fall daylight savings)
   Set to "NO" before setting the current time.
- Then, on the first Sunday in April (spring daylight savings), set to "YES."
- All the time-related settings automatically move one hour ahead.

Remote Commander



Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."

Press MENU.

The main menu appears.



Press A/V WINDOW +/- until the cursor points to "TIME."

3 Press RETURN.
The time menu appears.

⊕ ►CURRENT TIME SET ON/OFF TIMER CHANNEL BLOCK DAYLIGHT SAVING:NO >MENU

Press A/V WINDOW +/- until the cursor points to 
"DAYLIGHT SAVING."

5 Press RETURN.
The mode display turns red.

Press A/V WINDOW +/-- to select "YES" or "NO.".

Press RETURN.
The setting is complete.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to " > MENU."

Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

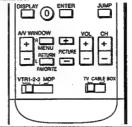
To return to the normal screen.

#### Setting the clock - CURRENT TIME SET

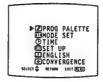
Follow these instructions to set the current time. The correct current time must be set in order to use the other time-related functions (DAYLIGHT SAVING, ON/OFF TIMER, CHANNEL BLOCK).

Example: Set the time to 3:15 PM, Monday.

Remote Commander



Press MENU.
The main menu appears.



Press AV WINDOW +/- until the cursor points to "TIME."

Press RETURN.
The time menu appears, and the cursor points to "CURRENT TIME SET."

TOURRENT TIME SET ON/OFF TIMER CHANKEL BLOCK DAYLIGHT SAVING:NO PMENU

Press RETURN again.
The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING.



If you do not need to set DAYLIGHT SAVING, press RETURN and continue from step 5.

#### To set daylight saving

- Press AV WINDOW +/- until the cursor points to "DAYLIGHT SAVING."
- b Press RETURN.

  The time menu appears, and the cursor points [6 "DAYLIGHT SAVING."
- C Press RETURN.
- d Press AV WINDOW +/- to select "YES" or "NO."
- Press RETURN.

  The setting is complete.

To set the time, press A/V WINDOW +/- until the cursor points to "CURRENT TIME SET"; press RETURN, then continue from step 5.

Fress RETURN.
The CURRENT TIME SET screen appears, and the "SUN" display appears (red).

Fress AV WINDOW +/- to select "MON."

Each time you press AV WINDOW +/-, the day changes consecutively.

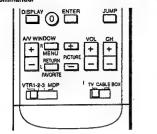
OCURRENT TIME SET

MON 12:00 AM
START

Select today's day.
NUCC \$ MINES TO SET

#### Setting the clock - CURRENT TIME SET (Cont'd. from prev. page)

Remote Commander



Press RETURN. The hour and am/pm displays turn red.

Press A/V WINDOW +/- to set "3:00PM." Each time you press A/V WINDOW +/-, the hour changes in sequence beginning with "12:00AM."



Press RETURN. The minute display turns red.

Press AV WINDOW +/- to select "15" (minutes). Press A/V WINDOW +/- to select "15" (mittutes Each time you press A/V WINDOW +/-, the minutes change in sequence.



Press RETURN. The cursor points to "START."

Check the actual time, and press RETURN to start the clock. The setting is complete.

To reset the time Display the CURRENT TIME SET screen and repeat steps · 5 - 12.

To display the current time Press DISPLAY.

To return to the previous menu Press AV WINDOW +/- until the cursor points to " > MENU," Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

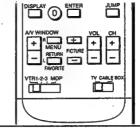
To return to the normal screen. Press MENU.

#### Setting the ON/OFF TIMER

Follow these instructions to make the program of your choice appear on the screen at a specified time.

Example: Set the timer to turn on the projection TV every Monday through Friday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up to three programs.)

Remote Commander



Press MENU. The main menu appears.



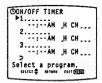
Press AV WINDOW +/-- until the cursor points to "TIME."

Press RETURN. The time menu appears.



Press A/V WINDOW +/- until the cursor points to "ON/OFF TIMER."

Press RETURN. The ON/OFF TIMER screen appears, and the cursor points



To set program 1, press RETURN, (To set program 2 or 3, press AV WINDOW +/- until the cursor points to that program; then press RETURN.) The day input space turns red.

Press A/V WINDOW +/- to select "EVERY MON-FRI": then press RETURN. Each time you press AV WINDOW +/-, the days of the week change as shown in Fig. 1 (p. 61).

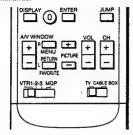


Press AV WINDOW +/- to select "1:00AM"; then 8 press RETURN. Each time you press A/V WINDOW +/-, the hour changes in sequence



#### Setting the ON-OFF TIMER (Cont'd from prev. page)

Remote Commander



Press A/V WINDOW +/- to select "30" (minutes); then press RETURN.

Each time you press AV WINDOW +/-, the minutes change in sequence.

> ON/OFF TIMER 1.EVERY MON-FRI 1:30AM H CH ... 2....AH \_H CH... 3.....AM \_H CH\_\_\_ Set the duration.

Press A/V WINDOW +/- to select "3" (hour duration); then press RETURN. Each time you press AV WINDOW +/-, the duration changes from "1" - "6" in sequence.



Press AV WINDOW +/- to select "8" (channel); then press RETURN.

The TIMER/STAND BY lamp lights, indicating that the setting is complete.

Each time you press A/V WINDOW +/-, the channel

number changes from 1 - 125 in sequence.



The display "TIMER WILL BE OFF" appears on the screen one minute before the timer duration ends.

To set program 2 or 3.

Press RETURN and repeat steps 6 - 11.

To erase an ON/OFF TIMER setting

Display the ON/OFF TIMER screen, select the setting you want to erase, and select a blank space for the day. The ON/OFF TIMER setting is erased.

To enter a new ON/OFF TIMER setting Display the ON/OFF TIMER screen and repeat steps 6 - 11.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to

" > MENU." Then press RETURN.

To return to the main menu

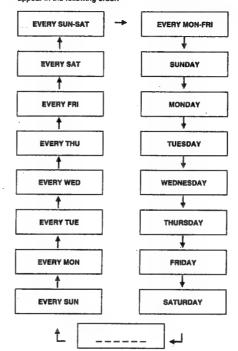
Repeat the above, until you reach the main menu,

To return to the normal screen. Press MENU.

Note

If you unplug the projection TV or a power failure occurs, both the clock and timer settings will be erased. Reset the current time; then

Selecting the day(s) of the week When you press AV WINDOW +, the days of the week appear in the following order:

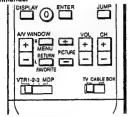


#### Setting CHANNEL BLOCK

Follow these instructions to prevent a channel from appearing on the screen during the time that you specify. You can use this function to prevent children from watching unsuitable programs.

Example: Set CHANNEL BLOCK every Saturday at 4:30 PM for 1 hour, on Channel 12.

Remote Commander



Note

If you have not set the current time, the "CHANNEL BLOCK" display is shaded and cannot be selected.

Press MENU.
The main menu appears.



Press AV WINDOW +/- until the cursor points to "TIME."

Press RETURN.
The time menu appears.



Press A/V WINDOW +/- until the cursor points to "CHANNEL BLOCK."

Fress RETURN. The CHANNEL BLOCK screen appears, and the cursor points to the day input space.



Press RETURN.
The day input space turns red.



Press A/V WINDOW +/-- to select "EVERY SAT"; then press RETURN.

Each time you press A/V WINDOW +/-, the days of the week

Each time you press A/V WINDOW +/-, the days of the wee change as shown in Fig. 1 (p. 61).



Press AV WINDOW +/- to select "4:00PM"; then press RETURN.
Each time you press AV WINDOW +/-, the hour changes in

sequence.



Press A/V WINDOW +/- to select ":30" (minutes); then press RETURN.

Each time you press AV WINDOW +/--, the minutes change in sequence.



10 Press A/V WINDOW +/- to select "1" (hour duration); then press RETURN.

Each time you press A/V WINDOW +/-, the duration changes from "1" - "6" in sequence.



Press AV WINDOW +/- to select "12" (channel); then press RETURN. The setting is complete. Each time you press AV WINDOW +/-, the channel number changes from "1" - "125" in sequence.



At the specified time, "BLOCKED" appears in red on the screen, and the picture of the specified channel is blocked and the sound is muted.

BLOCKED

To erase a CHANNEL BLOCK setting Display the CHANNEL BLOCK screen and select a blank space for the day. The CHANNEL BLOCK setting is erased.

To enter a new CHANNEL BLOCK setting
Display the CHANNEL BLOCK screen and repeat steps
4 – 10. (You can only set one CHANNEL BLOCK at a time.)

To return to the previous menu
Press AV WINDOW +/- until the cursor points to

□ MENU."
Then press RETURN,

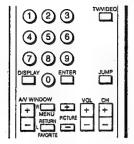
To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.

Note

if the ON/OFF TIMER is set for an overlapping time (pp. 59 – 61), the later time setting takes precedence. For example, if CHANNEL SLOCK is set for 2:00 PM and ON/OFF TIMER is set for 3:00 PM, ON/OFF TIMER wilt take effect at 3:00 PM.

#### Remote Commander



Follow these instructions to set the channels.

Press MENU. The main menu appears.



Press A/V WINDOW +/- until the cursor points to "SET UP."

Press RETURN. The set up menu appears.



Press A/V WINDOW +/- until the cursor points to "FAVORITE CHANNEL."

Press RETURN. The FAVORITE CHANNEL screen appears, and the cursor points to the first channel position.



Press A/V WINDOW +/- to select the channel position; then press RETURN.

Press 0 - 9 and ENTER to set the channel number.



Press RETURN. The setting is complete.

To set other channels Repeat steps 6 - 8.

#### To erase a favorite channel setting

Press A/V WINDOW +/- until the cursor points to the channel number you want to erase; press RETURN, then press 0 and ENTER.

#### To reset a favorite channel setting

Display the FAVORITE CHANNEL screen and repeat steps 6 - 8.

#### To return to the previous menu

Press A/V WINDOW +/- until the cursor points to " > MENU."

Then press RETURN.

#### To return to the main menu

Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.

#### Selecting a favorite channel

After setting the channels, follow these instructions to select the channel you want to watch.

Press RETURN. The FAVORITE CHANNEL display appears.



If you have set channel captions (pp. 53 - 54), the captions appear with the channel numbers.

Press AV WINDOW +/- to select the channel you want to watch; then press RETURN. The channel is selected.

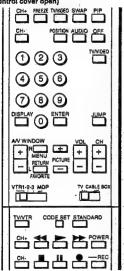
If you press RETURN on the Remote Commander before setting FAVORITE CHANNEL, this screen appears.

> Set your favorite channels first. Please go to SET UP in

Follow steps 1 - 8 to set your favorite channels, and then make the selection.

Follow these instructions to operate Sony video cassette recorders (Beta, 8 mm and VHS) and video disc players (including multi-disc players).

Remote Commander (with video control cover open)



2 Use the video operating buttons to control the connected equipment.

To turn on or off	Press POWER.
To change channels (when watching TV programs through the VCR's tuner)	Press CH +/
To record	Press ● and REC simultaneously.
To play	Press ►.
To stop	Press ■.
To fast forward	Press ►►.
To rewind the tape	Press ◄◄.
To pause	Press 18. To resume normal playback, press again.
To search the picture forward and backward	Keep pressing ►► or ◀◀ during playback. To resume normal playback, release the button.
To change input mode	Press TV/VTR.

Fig. 4: Operating a Video Disc Player (MDP) Press POWER. To turn on or off To play Press ▶. To stop Press ... To pause Press II. To resume normal playback, press again. Note This function in effective only for CAV (standard-play disc). With CLV (extended-play disc), the projection TV goes off (standby mode) if you press III, To search the Keep pressing ▶▶ or ◄◄ picture forward during playback. and backward To resume normal playback, release the button.

#### Notes

- If the video equipment does not have a certain function, the corresponding button on this Remote Commander will not operate.
- If you set another manufacturer's code to a VTR1-2-3 MDP selector position (pp. 68 – 69), you must also set the Sony code to operate Sony equipment.

#### Caution

When you replace the batteries, do so within approximately 30 minutes. Otherwise the settings you made under the Pre-Programmed function (pp. 68 -- 70) may be erased.

Set the VTR1-2-3 MDP selector according to the video equipment you want to operate.



Fig. 2: Video equipment settings

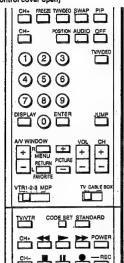
If you want to operate a:	set to:
Beta, ED Beta VCR	VTR 1
8 mm VCR	VTR 2
VHS VCR	VTR 3
Video disc player	MDP

#### Operating non-Sony or Sony video equipment

Follow these instructions to set the manufacturer's code, which will enable you to operate non-Sony and Sony video equipment with the pre-programmed Remote Commander.

Example: Operate an RCA video cassette recorder connected to the VIDEO 2 IN jacks.

Remote Commander (with video control cover open)



While pressing CODE SET, press 0, 7 and ENTER to set RCA's code number. (For manufacturer code numbers, see Figs. 5, 6 and 7 on p. 69.)



Use the video operating buttons to operate the connected equipment. (see Fig. 3 on p. 66 and Fig. 4 on p. 67.)

Fig. 5: VCR manufacturer code numbers

MANUFACTURER	CODE
SONY	01, 02, 03
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08, 36
JVC	16, 35
MAGNAVOX	05, 06, 09
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	05, 06
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

Fig. 7: Sony Equipment and Code Numbers

SONY EQUIPMENT	CODE	
Beta, ED Beta VCR	01	
8 mm VCR	02	
VHS VCR	03	_
Video disc player	04	

In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Remote Commander. In this case, please use the equipment's

Set the VTR1-2-3 MDP selector to VTR2.



#### Note

To use another manufacturer's equipment besides a Sony VCR, set the selector to a position not being used for your Sony video equipment.

Fig. 8: MDP manufacturer code numbers

MANUFACTURER	CODE	
SONY	04	
KENWOOD	58	
MAGNAVOX	52 -	
MARANZ	54	
MITSUBISHI	51	
PANASONIC	55	
PHILIPS	52	
PIONEER	51	
RCA ··	51.	
SANYO	57	
SHARP	56	
YAMAHA	53	

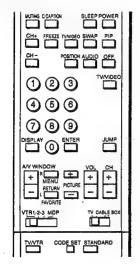
33

#### Operating a cable converter box

Follow these instructions to set the manufacturer's code, which will enable you to operate a connected cable converter box with the pre-programmed Remote Commander.

Example: Operate a connected Zenith cable converter box.

Remote Commander (with video control cover open)



Set the TV/CABLE BOX selector to CABLE BOX.



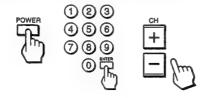
#### Notes

- . If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- . in some rare cases, your equipment may use a code that is not provided with this Remote Commander and you may not be able to operate your cable converter box with the supplied Remote Commander. In this case, use the equipment's own remote control unit.

While pressing CODE SET, press 6 and 8 (Zenith's code number - see Fig. 8) and ENTER.



Use the projection TV control buttons (POWER, 0 - 9, ENTER and CH +/-) to operate the cable converter



To return to the normal screen

Set the TV/CABLE BOX selector to TV; then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box Refer to the operating instructions that come with the cable box.

Fig. 8: Cable box manufacturer code numbers

MANUFACTURER	CODE
JERROLD	60, 61, 62, 63, 64, 65
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71, 72
ZENITH	68

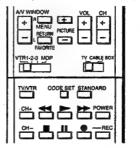
#### Selecting a VCR mode directly — DIRECT PLAY

Follow these instructions to switch from TV to VCR mode by simply pressing the > (playback) button on the supplied Remote Commander.

Example: Connect your VCR to the VIDEO 2 IN jacks, and set the VTR1-2-3 MDP selector to VTR2. When you press ▶, the input mode changes to the VCR connected to the VIDEO 2 IN jacks.

After completing the steps below, the VTR selector position is retained in the projection TV's memory.

Remote Commander (with video control cover open)



Press MENU. The main menu appears.



Press A/V WINDOW +/- until the cursor points to "SET UP."

Press RETURN. The set up menu appears.



Press A/V WINDOW +/- until the cursor points to "DIRECT PLAY."

Press RETURN. A message screen appears.



Note This screen reminds you to set the manufacturer's code, if you have not already done so (pp. 68 - 69).

Press RETURN again. The DIRECT PLAY screen appears.

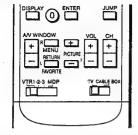


Press A/V WINDOW +/- until the cursor points to the video input mode. (When the video equipment is connected to VIDEO 1 IN, select "VIDEO1.")

Press RETURN. The mode display turns red.

# Selecting a VCR mode directly – DIRECT PLAY (Cont'd. from prev. page)

Remote Commander



Press A/V WINDOW +/- to select the VTR selector mode you have set on the Remote Commander. (When the VTR1-2-3 MDP selector is set to VTR2, select "VTR 2.")

Each time you press A/V WINDOW +/-, "VTR 1," "VTR 2,"

"VTR 3," "MDP" and "OFF" appear in sequence.



10 Press RETURN.
The direct play setting is complete.

To set direct play for other connected video equipment Repeat steps 7 – 10.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to
" ⊃ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.

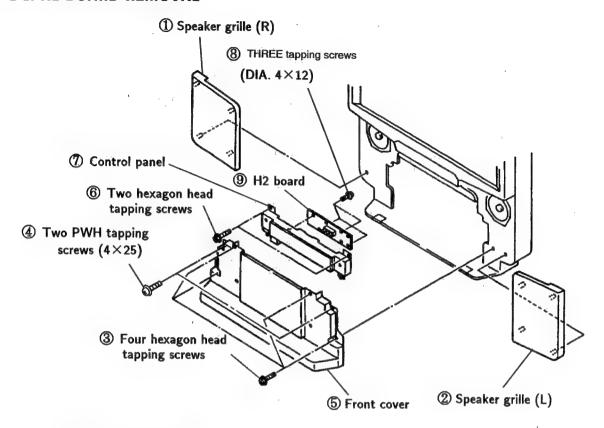
# Appendix Troubleshooting

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

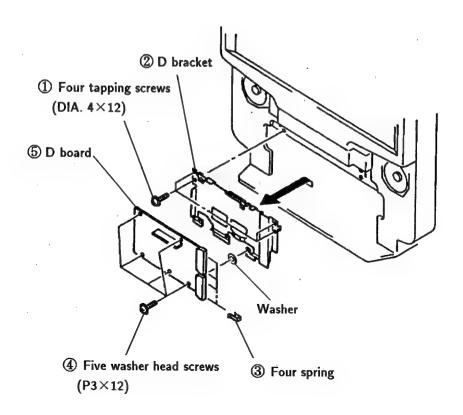
Symptom	Possible causes and remedies		
No picture (screen not lit), no sound	Make sure POWER is switched on. Check the power cord connection. Check that the TV/VIDEO and VTR1-2-3 MDP controls are scorrectly. Make sure that the TV/CABLE BOX selector is set to TV.		
Poor or no picture (screen not lit), good sound	Adjust the picture using the VIDEO screen (pp. 44 – 47). Check the antenna/cable connections. Adjust the color registration (pp. 24 – 25).		
Good picture, no sound	Press VOLUME + on the projection TV or VOL + on the Remote Commander. Press MUTING on the Remote Commander. Check the MTS setting (p. 51). Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. Make sure SPE		
No color for color programs	Check the HUE and COLOR settings (pp. 44 – 45).		
Snow and noise only	Check that it is an active or correct channel. Check the cable setting. Check antenna/cable connections.		
Dotted lines or stripes	This is often caused by local interference (for example, cars, neon signs and hairdryers). Adjust the telescopic aerial for minimum interference.		
Double images or ghosts	Reflections from nearby mountains or buildings often cause this problem. Connecting a highly directional outdoor antenna or a CATV cable may improve the picture.		
Remote control does not operate	Check the battery in the Remote Commander.		
No picture and/or sound for the connected equipment	Check that the TV/VIDEO button is set correctly. Check that the connections are properly made. Check that the power of the connected equipment is turned on. Check that the connected equipment is set correctly.		

# SECTION 2 DISASSEMBLY

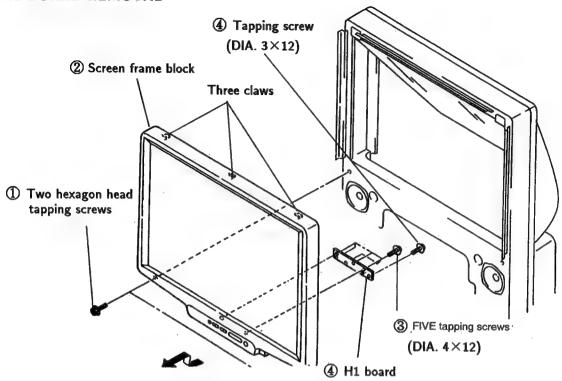
# 2-1. H2 BOARD REMOVAL



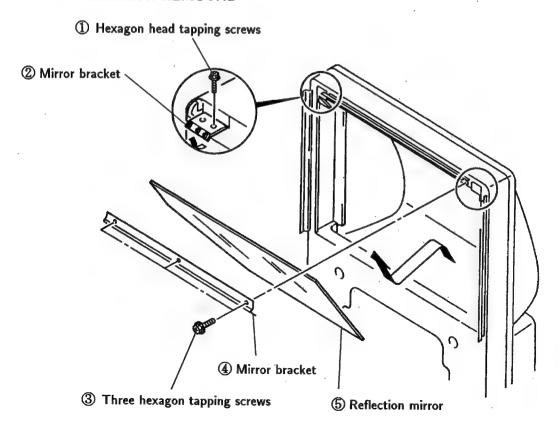
### 2-2. D BOARD REMOVAL



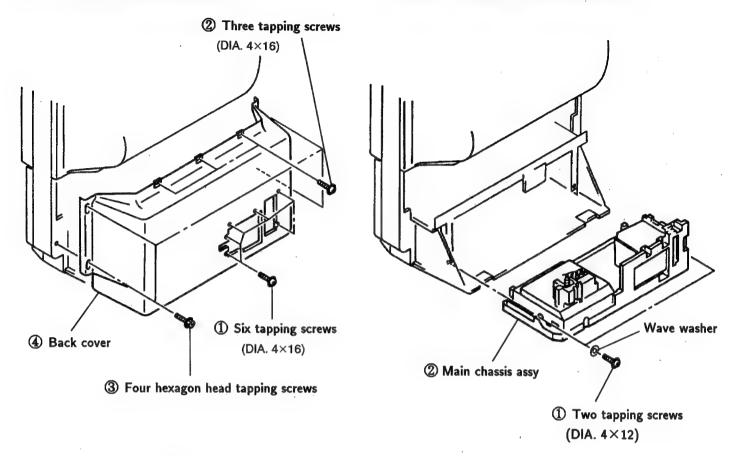
### 2-3. H1 BOARD REMOVAL



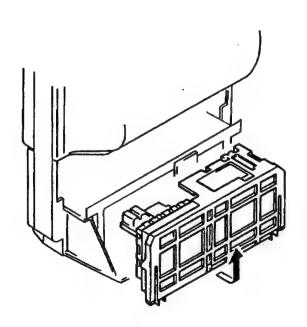
# 2-4. REFLECTION MIRROR REMOVAL



#### 2-6. MAIN CHASSIS ASSY REMOVAL 2-5. BACK COVER REMOVAL



# 2-7. SERVICE POSITION



#### NOTES INSERTED IN SERVICE POSITION

Service Position Procedure

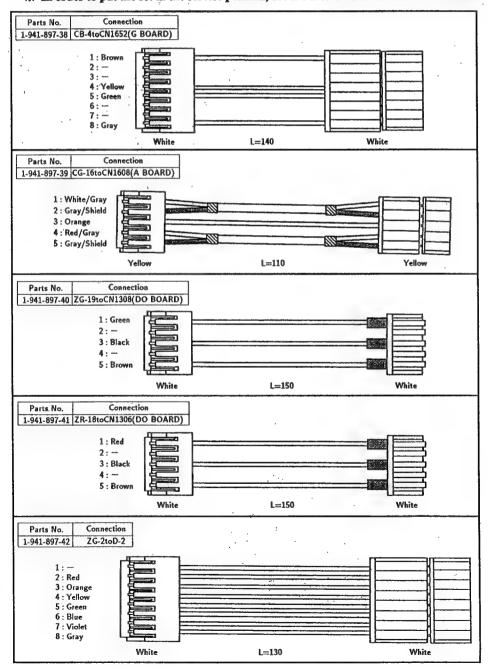
- 1) Remove the path locks where the harness comes into. (MAIN bracket, G shield)
- 2) Remove the following connectors befor removing the main bracket.
- \* HV grounding lead, G shield grounding lead, V-2 connector(V board).
- 3) Remove the main bracket. (Take care as the connector leads linking to the C and Z boards considerably short).
- 4) Before power ON, be sure to connect the connectors removed.
- \* HV grounding lead, G shild grounding lead.

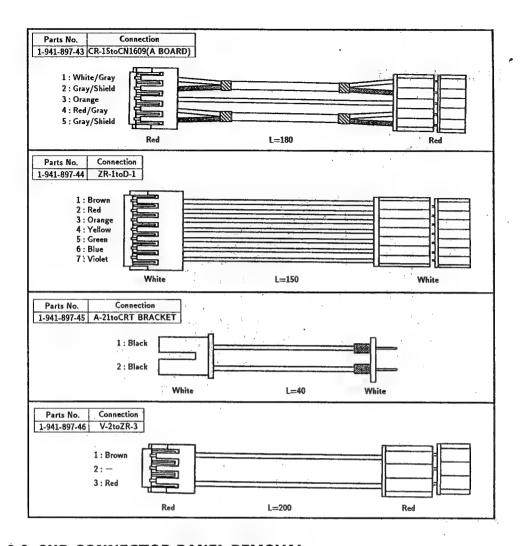
In case that grounding lead(Black) of HV Block is not connected with chassis grounding, it causes arcing of CRT and it is daigerous.

Be sure to connect grounding lead of HV Block with chassis grounding.

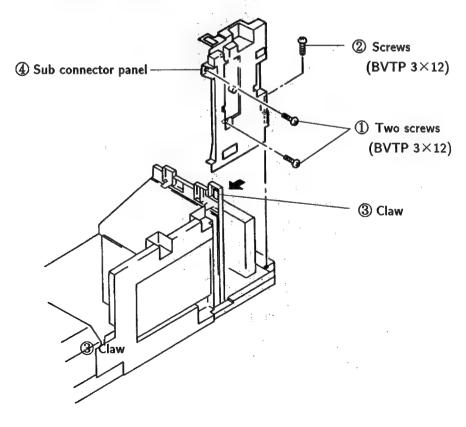
#### CONNECTOR CABLES

\* In order to put the set in the service position, use the extension connector cables below.

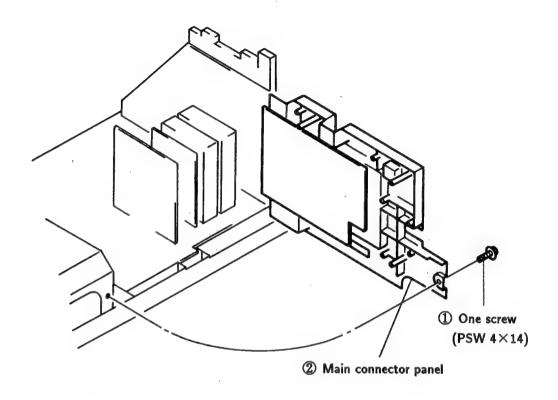




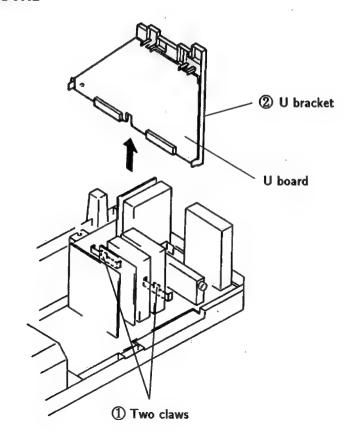
#### 2-8. SUB CONNECTOR PANEL REMOVAL



# 2-9. MAIN CONNECTOR PANEL REMOVAL

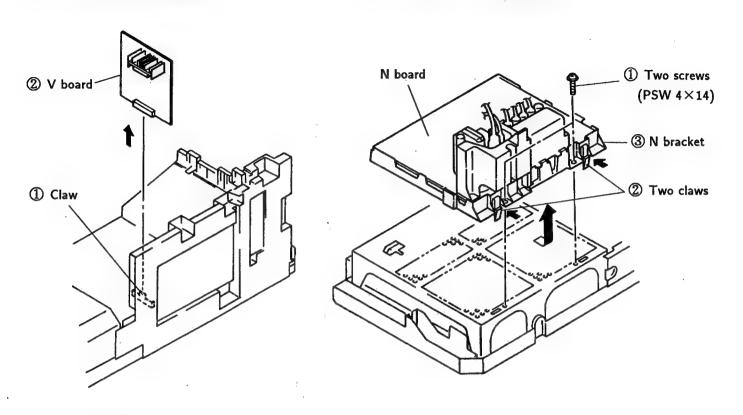


# 2-10. U BRACKET REMOVAL

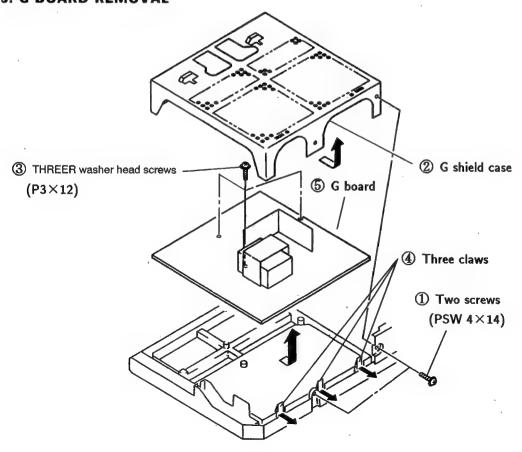


# 2-11. V BOARD REMOVAL

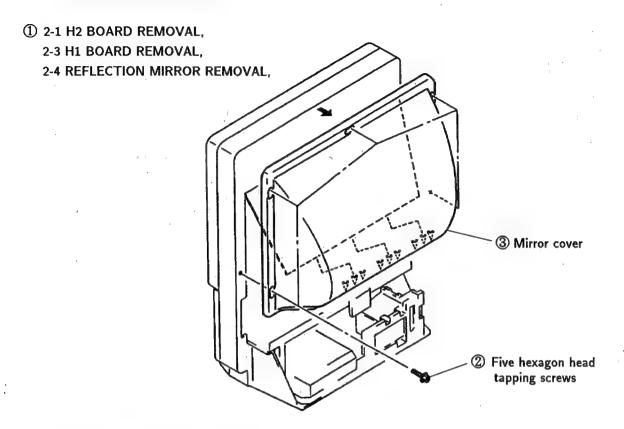
# 2-12. N BRACKET REMOVAL



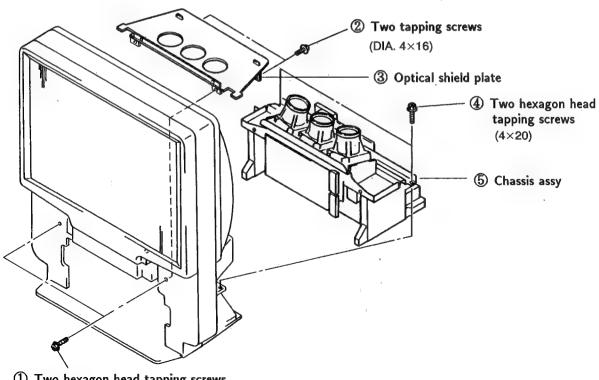
# 2-13. G BOARD REMOVAL

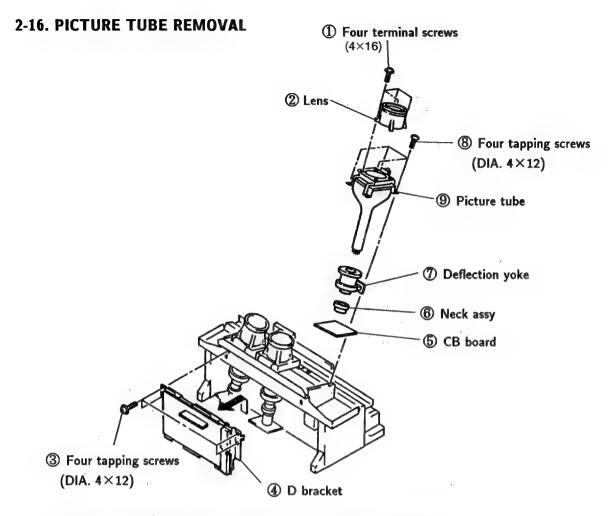


# 2-14. MIRROR COVER REMOVAL

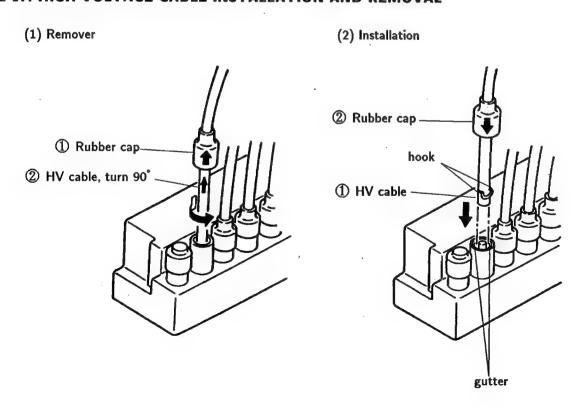


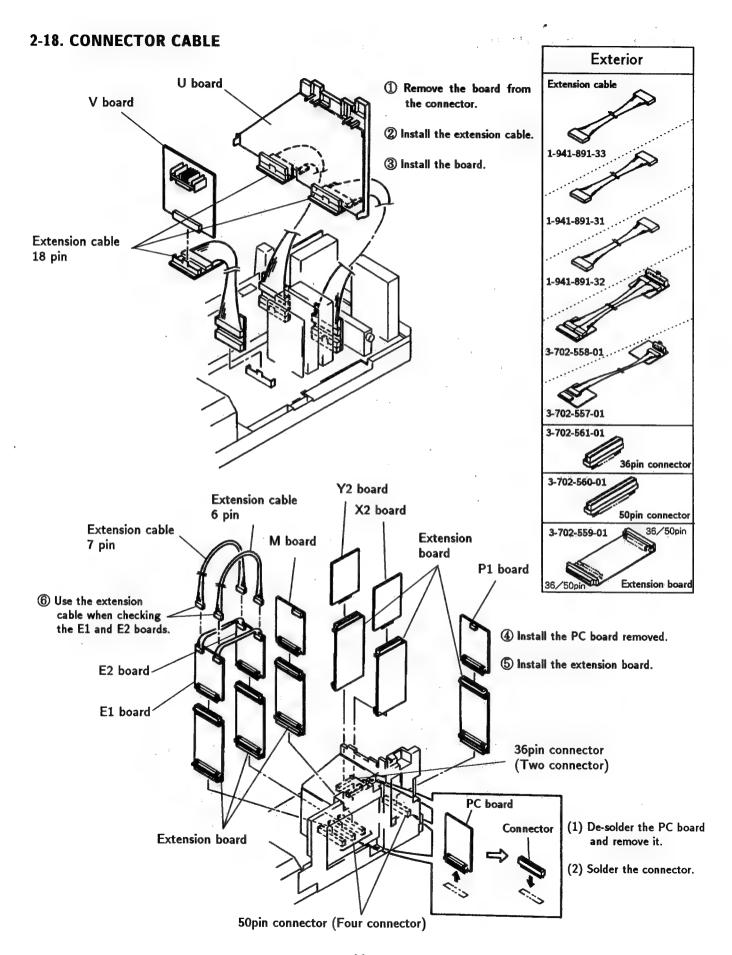
### 2-15. CHASSIS ASSY REMOVAL





# 2-17. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

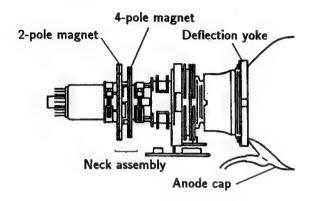




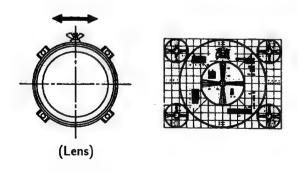
# SECTION 3 SET-UP ADJUSTMENTS

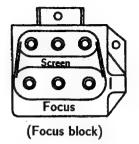
#### 3-1. FOCUS LENS ADJUSTMENTS

- Set the D-board registration variable resistors (VR) to mechanical center.
- Set the centering magnets (for red, green, and blue) to 0 as shown in the figure.

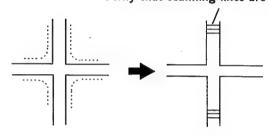


- Input monoscope signal. Set 50% BRIGHTNESS and minimum PICTURE. Make rough adjustment so that 10IRE of the monoscope signal becomes faintly luminous using the screen VRs.
- Set PICTURE and BRIGHTNESS maximum.
   Press the commander menu button. Select CONVERGENCE to display test signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- Turn the green lens to eliminate flare of the test signal.

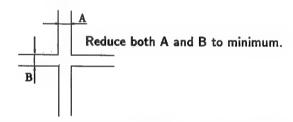




Verify that scanning lines are seen.



7. Turn the green focus VR in the focus block to adjust green focus to reduce both A and B of the test signal to minimum.



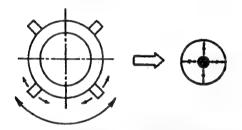
- 8. Repeat avobe 6 and 7. Couple of times to improve tracking and obtain an optimum focus. Then tighten the green lens screw.
- 9. Adjust the red and blue focuses similarly.

# 3-2. DEFLECTION YOKE POSITION ADJUSTMENTS

- 1. Input monoscope signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
   Similarly, select B OFF to cut off blue output.
- 3. Loosen the deflection yoke (DY) fitting screws. Tilt the DY to obtain the best horizontal and vertical monoscope patterns.
- 4. After adjustment, press the DY onto the cathode ray tube (CRT) funnel and tighten the screws.
- 5. Also adjust DY positions for red and blue outputs in the same way.

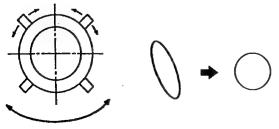
#### 3-3. 2-POLE MAGNET ADJUSTMENT

- 1. Input dot signal.
- 2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output. Similarly, select B OFF to cut off blue output.
- 3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block counterclockwise from the just focus to brighten the point in the dot.
- 4. Adjust the 2-pole magnet to position the bright point at the center of the dot.
- 5. Adjust the red and blue dots in the same way.
- \* Use the center dot:red and green Use the vertical center and left end dot: blue



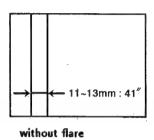
#### 3-4. 4-POLE MAGNET ADJUSTMENT

- 1. Input dot signal.
- 2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output. Similarly, select B OFF to cut off blue output.
- 3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block clockwise (counter clockwise : blue) from the just focus until the dot diameter becomes as shown below.
- 4. Adjust the 2-pole magnet to make the dot perfectly round.
- 5. Turn the green focus variable resistor to the just
- Adjust the red and blue dot in the same way.
- \* Use the center dot : red and green Use the vertical center and left end dot: blue



# 3-5. DE-FOCUS ADJUSTMENT (BLUE)

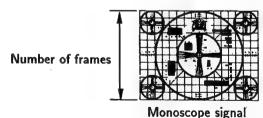
- Input cross hatch signal.
- Turn the blue focus variable resistor (VR) in the focus block counter clock wise so that thewidth of the left end vertical line becomes as shown below.

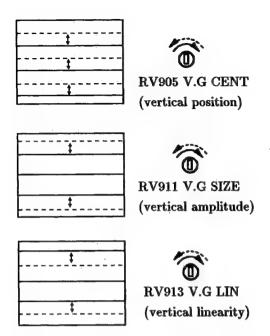


### 3-6. GREEN PICTURE ADJUSTMENTS

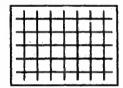
- 1. Input monoscope signal.
- 2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output. Similarly, select B OFF to cut off blue output.
- Turn RV913 and RV960, the vertical green linearity variable resistors (V.G LIN VRs) on the D-board, to obtain an optimum vertical linearity. Then turn RV911, the vertical green amplitube variable resistor (V.G SIZE VR) to set vertical amplitude to 11.7 flames.

Note: The vertical position indicator of the monoscope signal must be positioned at the center by adjusting RV905, the vertical green center position variable resistor (V.G CENT VR) in advance.





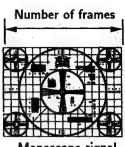
 Verify that the horizontal lines on the top and bottom of cross-hatched area of the monoscope signal are horizontal and linear.



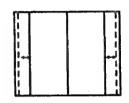
 Turn RV916, RV964 and RV969, the horizontal green linearity variable resistors (H.G LIN VRs) on the D-board, to obtain an optimum horizontal linearity.

Then turn RV908, the horizontal green amplitude variable resistor (H.G SIZE VR) to set horizontal amplitude to 15.6 frames.

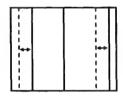
Note: The horizontal position indicator of the monoscope signal must be positioned at the center by adjusting RV902, the horizontal green center position variable resistor (V.G CENT VR) in advance.



Monoscope signal





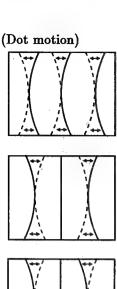




Input cross hatch signal.
 Turn vertical green (V.G) and horizontal green (H.G) variable resistors (VRs) and make adjustments according to the following steps:

(Adjustment procedure)

- 1. [BOW] → [SKEW] → [CENT (center position)]
- 2. [PIN (pin warp)]  $\rightarrow$  [SUB BOW]  $\rightarrow$  [BOW]
- 3.  $[KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]$
- [M.WAVE (middle sine wave warp)] →
   [WAVE-A (upper and lower sine wave warp)] →
   [WAVE-U (upper sine wave warp)]
  - **※** For vertical (V) only.
- [V-M.PIN (vertical middle pin warp)] →
   [V/WING (vertical wing warp)]
  - For vertical (V) only.
- 6. [H-M.PIN (horizontal middle pin warp)]
  - **X** For horizontal (H) only.



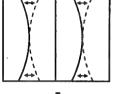


RV932 H.G BOW (horizontal green bow)



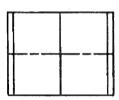
RV941 H.G PIN

(horizontal green pin warp)

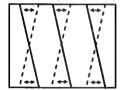




**RV950 H.G SUB BOW** (horizontal green sub bow)

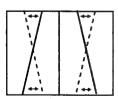


V.G	BOWR	V935
V.G	PINR	V938
V.G	SUB BOWR	V953



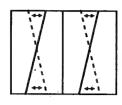


RV920 H.G SKEW (horizontal green skew)



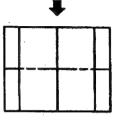


**RV925 H.G KEYS** (horizontal green trapezoid)

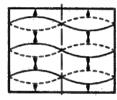




**RV944 H.G SUB SKEW** (horizontal green sub skew)

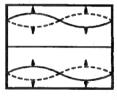


V.G	SKEW	∙·RV923
$\mathbf{V}.\mathbf{G}$	KEYS	·RV929
V.G	SUB SKEW·····	…RV947



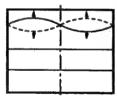


RV962 V-M-WAVE (vertical middle sine wave warp)



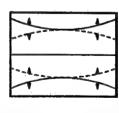


**RV975 V-WAVE-A** (vertical upper and lower sine wave warp)





RV978 V-WAVE-U (vertical upper sine wave warp)

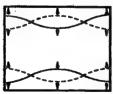




RV980 V-M. PIN (vertical middle pin warp)

X Common in red, green,

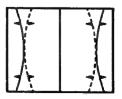
and blue





RV957 V/WING (wing warp)

and blue





RV956 H/M. PIN (horizontal middle pin warp)

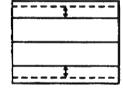
# 3-7. GREEN AND RED REGISTRATION ADJUSTMENTS

- 1. Input cross hatch signal.
- 2. Enter service mode. Select B OFF of SERVICE MODE to cut off blue output.
- 3. Turn the vertical red (V.R) and horizontal red (H.R) variable resistors (VRs) to adjust red picture convergence in relation to green picture according to the following steps:

### (Adjustment procedure)

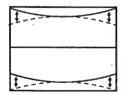
- [LIN (linearity)] → [SIZE (amplitude)] →
   [CENT (center position)]
- 2.  $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- [PIN (pin warp)] → [SUB BOW] → [BOW]
   [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid)]  $\rightarrow$  [SUB SKEW]  $\rightarrow$  [SKEW]
- [M.WAVE (middle sine wave warp)] →
   [WAVE-A (upper and lower sine wave warp)] →
   [WAVE-U (upper sine wave warp)]

#### (Dot motion)



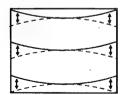


RV912 V.B SIZE (vertical red amplitude)



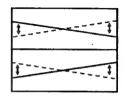


RV952 V.R SUB BOW (vertical red sub bow)

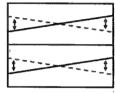




RV943 V.R BOW (vertical red bow)

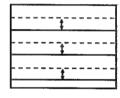






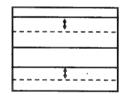


RV946 V.R SUB SKEW (vertical red sub skew)



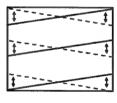


RV904 V.R CENT (vertical red center position)





(vertical red linearity)





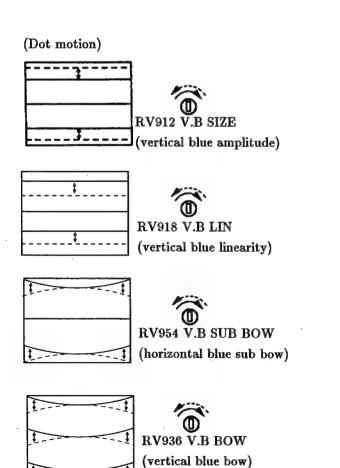
(vertical red skew)

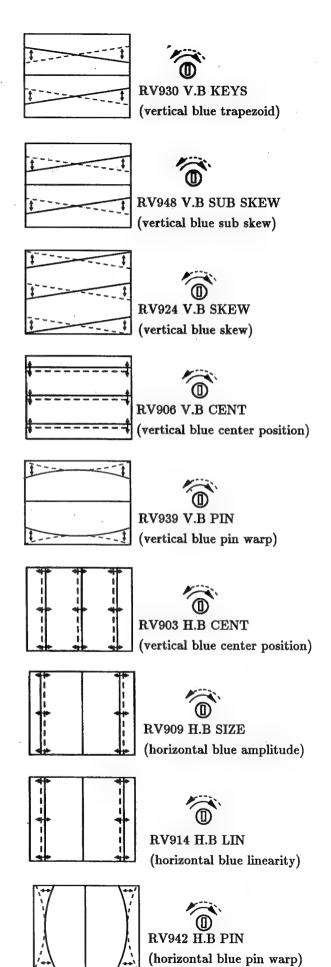
# 3-8. GREEN AND BLUE REGISTRATION ADJUSTMENTS

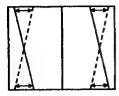
- 1. Input cross hatch signal.
- 2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
- 3. Turn the vertical blue (V.B) and horizontal blue (H.B) variable resistors (VRs) to adjust blue picture convergence in relation to green picture according to the following steps:

#### (Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] →
   [CENT (center position)] →
- 2.  $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- [PIN (pin warp)] → [SUB BOW] → [BOW]
   [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid)]  $\rightarrow$  [SUB SKEW]  $\rightarrow$  [SKEW]
- [M.WAVE (middle sine wave warp)] →
   [WAVE-A (upper and lower sine wave warp)] →
   [WAVE-U (upper sine wave warp)] →

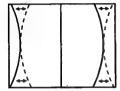






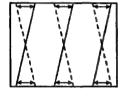


RV954 H.B SUB SKEW (horizontal blue sub skew)

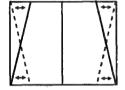




RV951 H.B SUB BOW (horizontal blue sub bow)

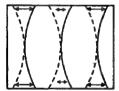






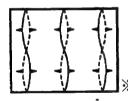


RV927 H.B KEYS (horizontal blue trapezoid)



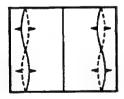


RV933 H.B BOW (horizontal blue bow)





RV981 Common in red, green, and blue





RV982 % Common in red, green, and blue

H/M PIN·····	RV958
•	
M.WAVE	R v 961
WAVE-A·····	·····RV974
WAVE-U·····	·····RV977

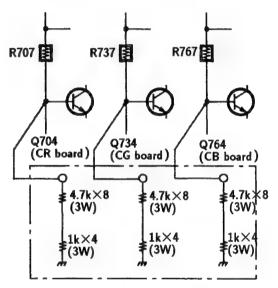
#### 3-9. REGISTRATION CHECK

- 1. Out put red, blue, and green.
- 2. Out put cross hatch and monoscope signals to check registration. Also check focus.

#### 3-10. WHITE BALANCE ADJUSTMENTS

#### 1) Screen adjustment

- 1. Input white signal.
- 2. Remove connectors CR-15, CG-16, and CB-17.
- Fit jigs between the ground and R707, R737, and R767.



- X Resistors in each jig are connected serial.
- 4. Turn the RGB (red, green, and blue) screen variable resistors in the focus block to make the flyback line faint. Stop before the line completely disappears.
- 5. Insert connectors CR-15, CG-16, and CB-17.

- 2) White balance adjustments (SBRT, GAMP, BAMP, GCUT, BCUT)
- 1. Input monoscope signal and enter service mode.
- 2. Select the picture quality adjustment from the menu and set PICTURE minimum.
- 3. Use the commander to adjust SBRT so that 10 IRE of the monoscope pattern becomes faintly luminous.
- 4. Input white signal.
- 5. Set PICTURE minimum. Adjust item GCUT and BCUT to obtain an optimum white balance.
- 6. Set PICTURE maximum. Adjust GAMP and BAMP to obtain an optimum white balance.
- 7. Repeat white balance adjustment alternating PICTURE setting at the minimum and maximum.

# SECTION 4 SAFETY RELATED ADJUSTMENTS

#### 4-1. SAFETY RELATED ADJUSTMENTS

When replacing the following components, make the HV REGULATOR adjustments (on the N board)

WHV block, IC803, IC805, D805, D807, C817,
 C818, C821, C836, C837, R824, R825, R827,
 R828, R834,R835, R836, R864, R865, R866,
 R902

When replacing the following components, make the HV HOLD DOWN adjustments (on the N board)

Why block, IC803, IC804, Q804, D806, D808,
C809, C819, C820, C822, C823, C850, R807,
R826, R829, R832, R833, R837, R838, R839,
R840, R841, R892, R893, R900, R901

When replacing the following components, make the BEAM CURRENT PROTECTOR adjustments (on the N board)

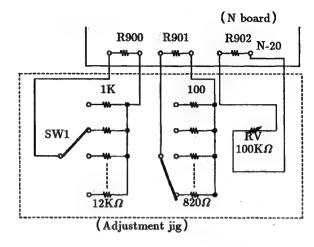
- ☑ .....① IC802, Q805, Q807, D811, D812,C810, C824, C825, C826, C827, C831, R810, R843, R844, R847, R848, R849, R850, R851, R852, R853, R854, R881
  - IC804, Q804, Q808, D808, D809, C809,
     C828,C829, C830, C831, R807, R839,
     R840, R841,R847, R848, R849, R850,
     R851, R852, R855, R856, R857, R881

When replacing the following components, make the OVP CIRCUIT adjustments (on the G board)

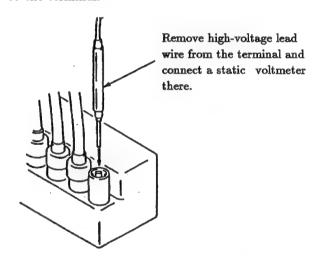
- .....Q618, Q621, D628, C634, R639, R649, R652, R655, R656
- Checking with static voltmeter —

### HV HOLD DOWN ADJUSTMENTS (☐R900, R901)

- 1. Verify that the power switch is off.
- Connect the HV hold down adjustment resistance jig to the N20 connector on the N board.



- 3. Connect an external variable resistor (RV) to R 902 of the N board.
- 4. Remove the cap off from the unused terminal of the high voltage block. Connect a static voltmeter to the terminal.



- Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
- 6. Use the external variable resistor of the hold down adjustment jig to make the static voltmeter to read 33.50 ± 0.50kVDC.
- 7. Raise resistances with the jig until the HV hold down circuit is activated. Read the figures then, and mount resistance of the measured figures to R900 and R901.

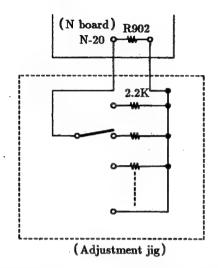
R900: Must be  $1k\Omega$  to  $12k\Omega$ 

R901: Must be Jw  $100\Omega$  to  $820\Omega$ 

 Turn on power again. Vary external variable resistance and confirm that the HV hold down circuit is activated at the reated value, 33.50± 0.50kV.

#### HV REGULATOR ADJUSTMENTS (MR902)

 Connect the HV adjustment resistance jig to R902 of the N board.



- Remove the red anode lead wire for the CRT tube from the high-voltage block and connect the static voltmeter instead.
- Receive 120 VAC power voltage and monoscope pattern signal. Set PICTURE and BRIGHTNESS to the standard.
- Turn on power. To adjust the resistance of R902 with the adjustment jig to read the rated value, 31.50±0.50kV.
- Receive all-white signal. Set BRIGHTNESS to the standard. Maximize PICTURE. Confirm that the rated value, 31.50±0.50kV is read.
- Cut off RGB by R OFF, G OFF, B OFF of the service commander. Verify that the rated value, 31.50±0.50kV, is read.

### +B VOLTAGE CONFIRMATION

- Receive 120±1 VAC power voltage and monoscope pattern signal. Set BRIGHTNESS to standard and maximize PICTURE.
- 2. Connect a digital multimeter between the 115V line and the ground on the G board, and confirm that the rated value, 115.053°V is read.

#### CHECKING AFTER REPLACING IC601

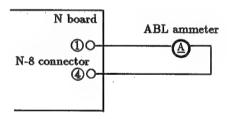
1. When replacing IC601, check the +B voltage.

# CHECKING THE OVP (overvoltage protection) CIRCUIT (☑R652)

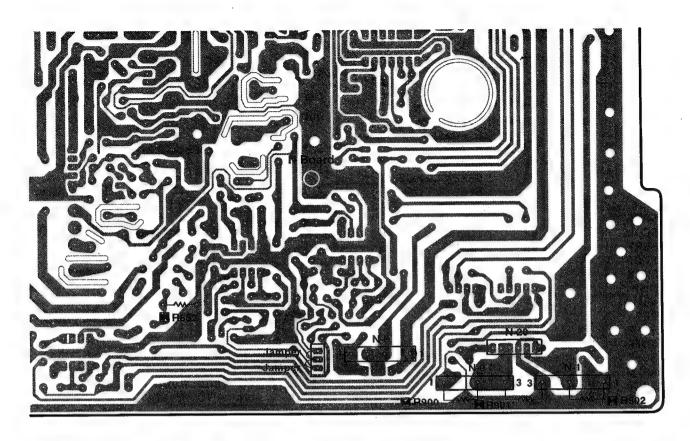
- Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
- 2. Remove R638 from the G board and connect a variable resistor  $(4.7 \text{ to } 10 \text{k}\Omega)$  instead.
- 3. Turn the variable resistor of  $10k\Omega$  and confirm that the OVP circuit is activated and luster disappears when +B voltage reads the rated value,  $125.0\pm5.0$  VDC.

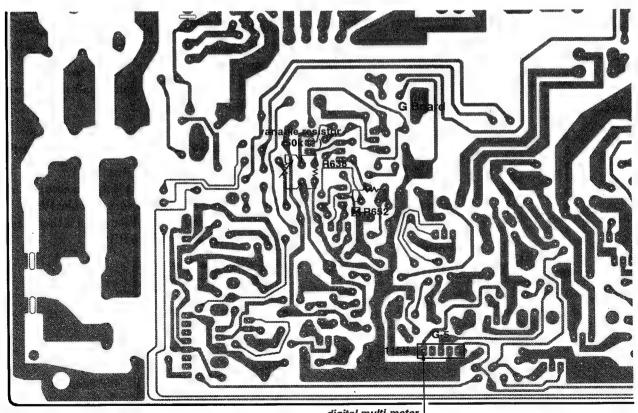
### BEAM CURRENT PROTECTOR CHECK (MR852)

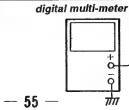
- 1. Receive 120 VAC power voltage and monoscope pattern signal. Maximize BRIGHTNESS.
- 2. Connect pin① and pin② of the N-21 connector. (on the N board)
- 3. Remove the jumper connector from the N-8 connector on the N board. Then connect an ABL ammeter between pin ① and pin ④ of the N-8 connector.



- 4. Raise PICTURE current gradually. Confirm that the beam current protector circuit is activated and luster disappears under the rated value,  $3400 \mu A$ .
- 5. Connect pin and pin of the N-21 connector. Verify that the protector circuit is activated and luster disappears similarly.







Checking without static voltmeter

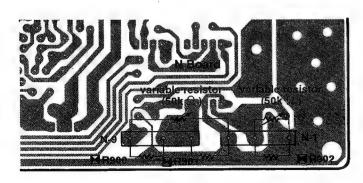
#### HV HOLD DOWN ADJUSTMENT (☐R900, ☐R901)

- 1. Receive all-white signal. Maximize PICTURE and 1. BRIGHTNESS.
- 2. Remove R902 from the N board. Connect a variable resistor of  $50k\Omega$  on each end, and minimize the resistance.
- 3. Remove R900 and R901 from the N board. Connect a variable resistor of  $50k\Omega$  on each end, and minimize the resistance.
- 4. Connect a digital voltmeter between the D801 cathode and chassis ground of the N board.
- 5. Turn on the power switch. Adjust the variable resistors connected to the R902 of the N board to make the digital multimeter to read 145.0VDC.
- Adjust the variable resistors connected to R900 and R901 on the N board so as to activate the HV hold down circuit and turn off the display.
- Read the variable resistors connected to R900 and R901 and mount fixed resistors of measured resistance to the terminals.

Note: Select fixed resistance from the following ranges.

R900:  $1k\Omega$  to  $12k\Omega$ R901: Jw  $100\Omega$  to  $820\Omega$ 

- 8. Maximize resistance of the variable resistor connected to R902 of the N board and turn on power.
- 9. Vary variable resistance at R902. Confirm that the HV hold down circuit is activated and the display is turned off when voltage reads  $134\pm1.0$ V.

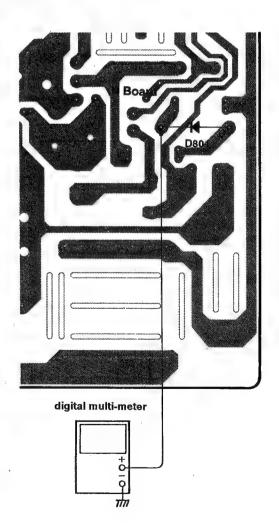


#### HV REGULATOR ADJUSTMENT (☐R902)

- 1. Receive all-white signal. Maximize PICTURE and BRIGHTNESS.
- Connect a variable resistor of 50kΩ on each end of R902 of the N board. Maximize resistance.
- 3. Connect a digital voltmeter between the D801 cathode and the chassis of the N board.
- 4. Turn on power. Adjust the variable resistor so that the digital multimeter reads 135.0V±1.0V.
- 5. Read the variable resistance then.
- 6. Mount a fixed resistor of the measured resistance to R902.

Note: R902: Must be  $2.2k\Omega$  to  $27k\Omega$ 

7. Turn on power again. Confirm that the digital multimeter reads  $135.0V \pm 1.0V$ .



# SECTION 5 CIRCUIT ADJUSTMENTS

# 5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

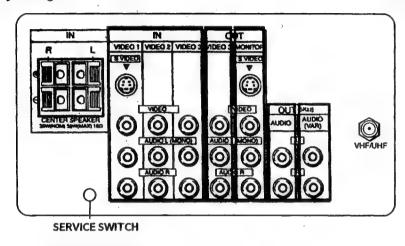
Use of Remote Commander (RM-Y112A) can be performed circuit adjustments about this model.

#### 1. METHOD OF SETTING THE SERVICE MODE

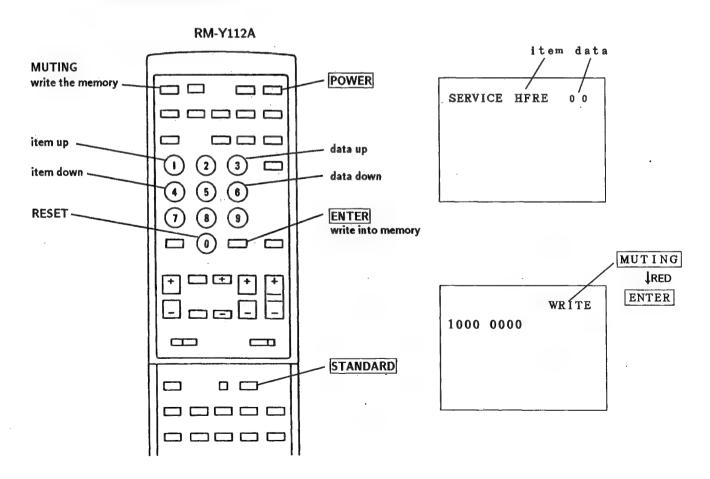
1) Press POWER button on the Remote Commander while pressing switch on the rear of the set.

NOTE: Test Equipment Required.

- 1. Pattern Generator
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio OSC



#### 2. ADJUST BUTTONS AND INDICATOR



#### 3. AN ITEM OF ADJUSTMENT

ITEM	REFERENCE DATA	NAME REGIST	
AFC	0	VP	AFC 1.0
HFRE	74	VP	H. FREQUENCE
VFRE	16	VP	V. FREQUENCE
HPOS	5	VP	H. PHASE
GAMP	25	VP	GREEN AMP.
ВАМР	26	VP	BLUE AMP.
GCUT	9	VP	GREEN CUT OFF.
BCUT	6	VP	BLUE CUT OFF
SPIX	40	VP	PICTURE
SHUE	29	VP	HUE
SCOL	28	VP	COLOR
SBRT	11	VP	BRIGHT
RGBP	28	VP	RGB PICTURE
SHAR	13		SHARPNESS
DISP	24		OUTPUT
VSMO	0	VP	VSMO
REF	1	VP	REF 1.0
ROFF	1	VP	OFF NR
GOFF	1	VP	OFF NG
BOFF	1	VP	OFF NB
ABLM	0	VP	ABLM
DRGB	0	VP	D RGB
TEST	0	AP	Т
MPX	7	AP	ATT
FILO	31	AP	11
DEEM	7	AP	12
STEV	31	AP	OSC 1
SAPV	31	AP :	OSC 2
PILO	7	AP	PILOT
SEP	31	AP	WIDE BAND
VD	7	AP	SPECTRAL
LVOL	0	AP	VOLUME-L
RVOL	0	AP	VOLUME-R
BASS	8	AP	BASS
TRE	8	AP	TREBLE
PHPO	32	PI	READ DELAY H
PVPO	8	PI	READ DELAY V
PLEV	6	PI	PICTURE LEVEL
PFCO	7	PI	FRAME COLOR
PPLL	1	PI	PLLOF
PPVS	6	PI	VSPDEL
NRLE	31		NR LEVEL
DSPP	43		CHAROTT
SHAD	1	PJ	SHADON
VMSW	1	PJ	RS HAD
SCUT	16	PJ	SHAD CUT OFF

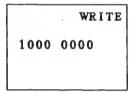
# 4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press POWER button on the commander) in the next place, press POWER button again, hereupon it becomes TV mode.

#### 5. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press 1 (UP) and 4 (DOWN), select an item of adjustments.
- 3) Press MUTING button indicate WRITE (RED) on screen.
- 4) PressENTER button to write for memory.

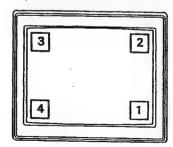
#### 6. MEMORY WRITE CONFIRMATION METHOD



- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- Turn the power switch ON and set to Service Mode.
- Call the adjusted items again, confirm they were adjusted.

# 7. PUB PICTURE POSITION ADJUSTMENT (PHPO, PUPO)

Note: Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.



**PIP Positions** 

After making adjustments into the PIP 1 position, write the information into the ROM.

Next, unplug the unit and recheck the other three positions. Adjustments made to the number 1 position will affect the other three positions.

#### 5-2. A BOARD ADJUSTMENTS

### RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Adjust AGC VR of TU 101 so that snow noise and cross-modulation disappear from the picture.
- 3) Confirm them at every channel.

## H.FREQUENCY ADJUSTMENT (HFRE)

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Connect a frequency counter to pin 3 of A-10 connector.
- 4) Call the item of AFC, set to 3 level (free run).
- 5) Select HFRE with 1 and 4.
- 6) Adjust 3 and 6 to the  $15735 \pm 60$  Hz level.
- 7) Call the item of AFC again, adjust the level" 01".
- 8) Write into the memory by pressing MUTING → then ENTER.

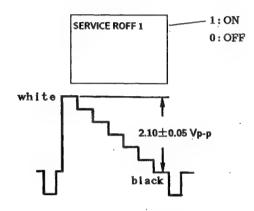
### V.FREQUENCY ADJUSTMENT (VFRE)

- 1) Set the Service Mode.
- 2) Input an off-air signal (VIDEO IN → no signal).
- Connect the frequency counter across connector
   pin of E 1-1 connector and ground.
- 4) Select VFRE with 1 and 4.
- 5) Adjust 3 and 6 to the  $\frac{55}{2}$   $\pm 0.5$  Hz.
- 6) Write the memory by pressing MUTING → then ENTER.

### SUB CONTRAST ADJUSTMENT (SPIX)

- 1) Set to Service Mode.
- 2) Input a color-bar signal. (75 IRE)
- 3) Set the conditions as follows.

PICTURE	MAX
COLOR	MIN
BRIGHTNESS	MIN
TRINITONE	······ LOW
R OFF	ON
G OFF	OFF
<b>BOFF</b>	OFF

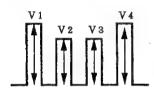


- Connect an oscilloscope to @pin of E1-1 connector on A board and ground.
- 5) Adjust 3 and 6 to the  $2.10 \pm 0.05$  Vp-p level by selecting SPIX with 1 and 4.
- 6) Write the memory by pressing MUTING → then ENTER.
- Return the following back to normal after adjustment.

G OFF	ON
B OFF	ON
COLOR	······· CENTER
BRIGHTNESS	······ CENTER
TRINITONE	НІСН
PICTURE	80%

### SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

- 1) Input a color-bar signal.
- 2) Press STANDARD to normal.
- 3) Set to Service Mode.
- 4) Connect an oscilloscope to pin of E1-1 connector on A board and ground.
- 5) Adjust 3 and 4 to the V1=V4 and V2=V3 by select to SHUE and SCOL with 1 and 4. Lower the data 4 steps from this point.

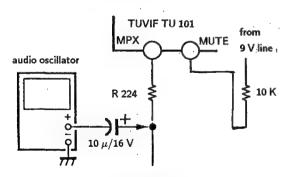


6) Write into the memory by pressing MUTING | -> then | ST VCO ADJUSTMENT (MPX, STEV) ENTER .

# FILTER ADJUSTMENT (MPX, FILO)

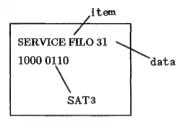
- 1) Set to Service Mode.
- 2) Select to TEST with 1 and 4, set the data to "1". Then select MPX and change data to "8".
- 3) Connect an audio oscillator to R224 using a capacitor ( $10\mu \text{ F}/16\text{V}$ ), set frequency to 62.936  $kHz\pm0.1 kHz$ .

And then, through the  $10k\Omega$  resistor, feed 9.0V into the mute of TUVIF TU 101.

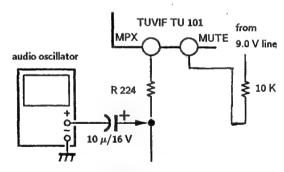


V 4 fh: SINE-WAVE 62.936 KHz ±0,1 KHz LEVEL 3.0 Vp-p

- 4) Make the data "00" by selecting FILO with 1 and 4 And then, send up the data gradually by pressing 6. Set the data to D1 before SAT3 changing to 1 from 0.
- 5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
- 6) Adjust the data of FILO to  $\frac{D \ 1 + D \ 2}{2}$ .
- 7) Write into the memory by pressing  $\boxed{\text{MUTING}}$   $\rightarrow$ then ENTER .

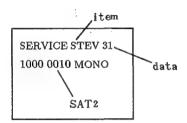


- 1) Set to Service Mode.
- 2) Select TEST with 1 and 4, set the data to "1". And then press MTS to MONO.
- 3) Select MPX, set the data "8".
- 4) Connect an audio oscillator to R 224 using electrolytic capacitor ( $10\mu \, \text{F}/16\text{V}$ ) and apply the frequency Vst. Then, apply DC voltage to mute of TUVIF TU 101 using 10kΩ connect to 9.0 V line.



Vfh: SINE-WAVE 15.734 KHz ± 0.1 KHz LEVEL 0.28 Vp-p

- 5) Select STEV with I and 4, set the data to "00" with 6. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
- 6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
- 7) Adjust the data of STEV to (D 1+D 2)/2.
- 8) Write into the memory by pressing MUTING then ENTER.



### MPX IN LEVEL ADJUSTMENT (MPX)

- 1) Set to Service Mode.
- 2) Select TEST with 1 and 4, set the data to "0" with 6. And then press MTS to MONO.
- 3) Select MPX with 1 and 4, set the data to "8" with 3 and 6.
- 4) Write into the memory by pressing MUTING → then ENTER .

# PILOT CANCEL ADJUSTMENT (PILO)

- 1) Set to the Service Mode.
- 2) Select PILO with 1 and 4, set the data to "08" with 3 and 6.
- 3) Write into the memory by pressing MUTING

  → then ENTER.

## SAP VCO f o ADJUSTMENT (SAPV)

- 1) Set to Service Mode.
- 2) Input a stereo broadcast signal with SAP.
- 3) Select TEST with 1 and 4, set the data to "0".

  And then, press MTS to MAIN.
- 4) Connect a digital multimeter to TP-1(DBX). This voltage reading will equal V 1.
- 5) Press MTS to SAP and this voltage will equal V 2.
- 6) Select SAPV with and 4, adjust 3 and 6 so that V 2=V 1±0.03 VDC.
- 7) Write the memory by  $\overline{\text{MUTING}} \rightarrow \overline{\text{ENTER}}$ .

#### SEPARATION ADJUSTMENT (SEP)

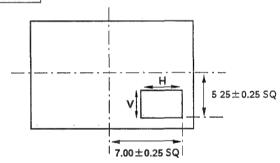
- 1) Set to Service Mode.
- Press MTS to MAIN and receive a monoral broad -cast signal.

In the next step, receive a stereo broadcast signal.

3) Select SEP and VD with 1 and 4, adjust 3 and 6 so that a clear stereo sound is effected.

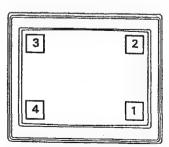
# SUB PICTURE POSITION ADJUSTMENT (PHPO, PVPO)

- 1) Input a cross hatch signal.
- 2) Set to service mode.
- Press PIP to display a sub picture. (RIGHT LOWER Position)
- 4) Select PHPO, PVPO with 1 and 4
- 5) Adjust 3 and 6 to the standard as shown below.
- 6) Write the memory by pressing MUTING → then ENTER .



# PUB PICTURE POSITION ADJUSTMENT (PHPO, PUPO)

Note: Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.



PIP Positions

After making adjustments into the PIP 1 position, write the information into the ROM.

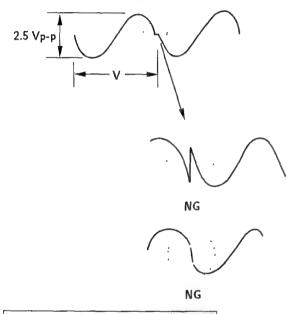
Next, unplug the unit and recheck the other three

positions. Adjustments made to the number 1 position will affect the other three positions.

#### 5-3. DS BOARD ADJUSTMENTS

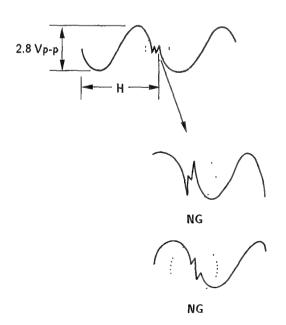
#### V. 3 WAVE ADJUSTMENT (RV983)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin of DS board ground.
- 3) Adjust RV983 as shown the following figure.

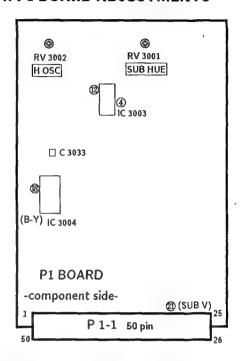


#### H. 3 WAVE ADJUSTMENT (RV984)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin① of DS board ground.
- 3) Adjust RV984 as shown the following figure.

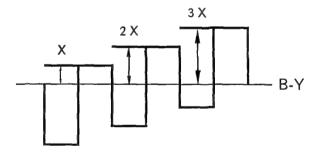


#### 5-4. P1 BOARD ADJUSTMENTS



#### SUB HUE ADJUSTMENT (RV 3001)

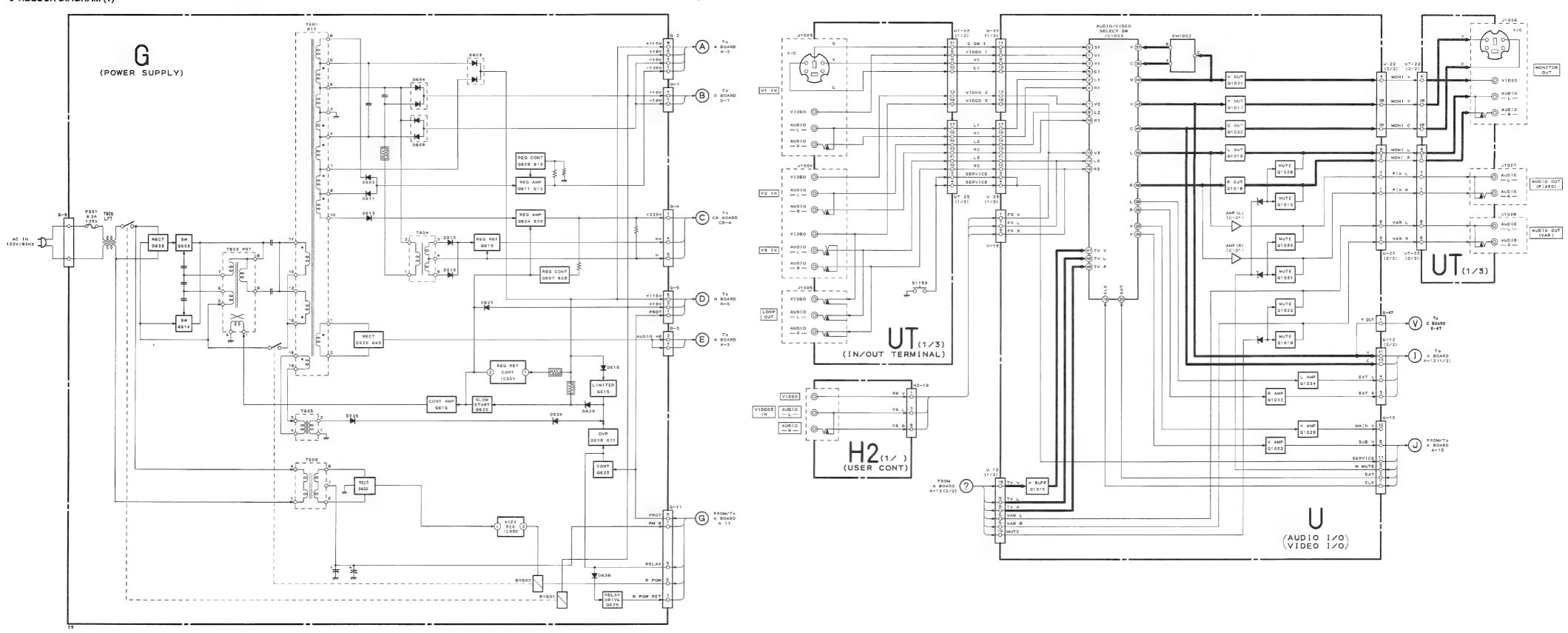
- 1) Set HUE and COLOR to the standard condition.
- 2) Make adjustment so that B-Y signal as shown to the right is obtained at the crossing point of R  $3009 (0 \Omega)$  and C 3033.
- 3) Supply the color bar signal of 75 IRE (white) at 2 Vpp to Pin ② (SUB V) of P1-1 and make adjustment by turning RV 3001.

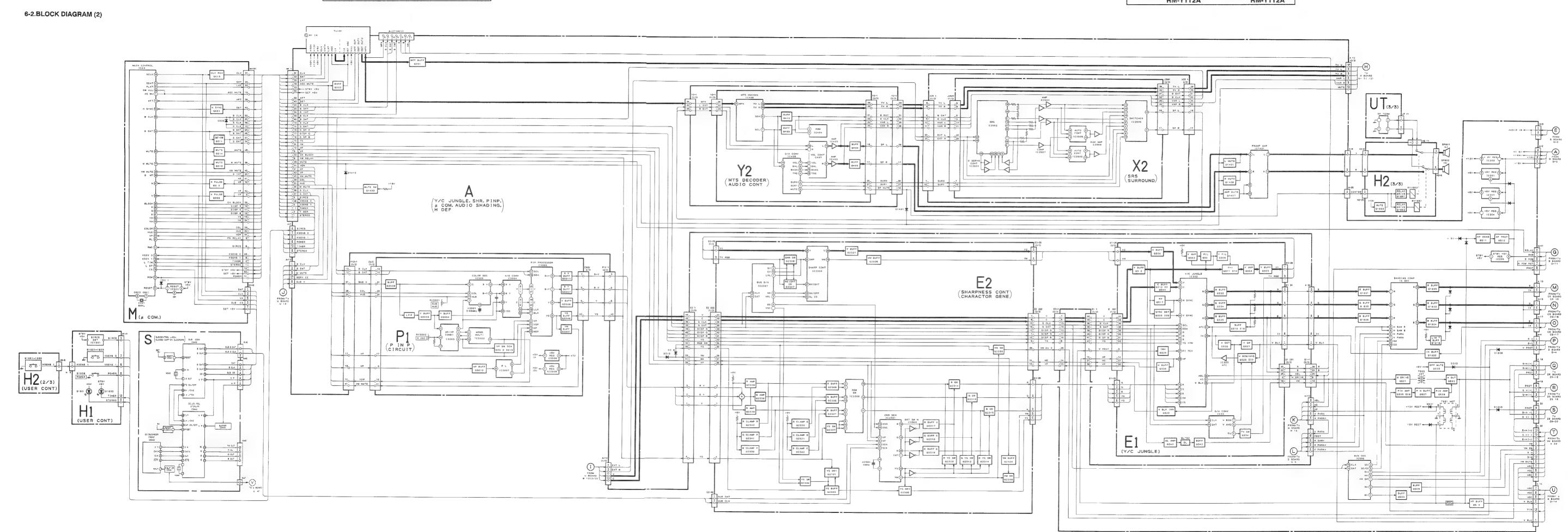


# H. FREQUENCY (H OSC) ADJUSTMENT (RV-3002)

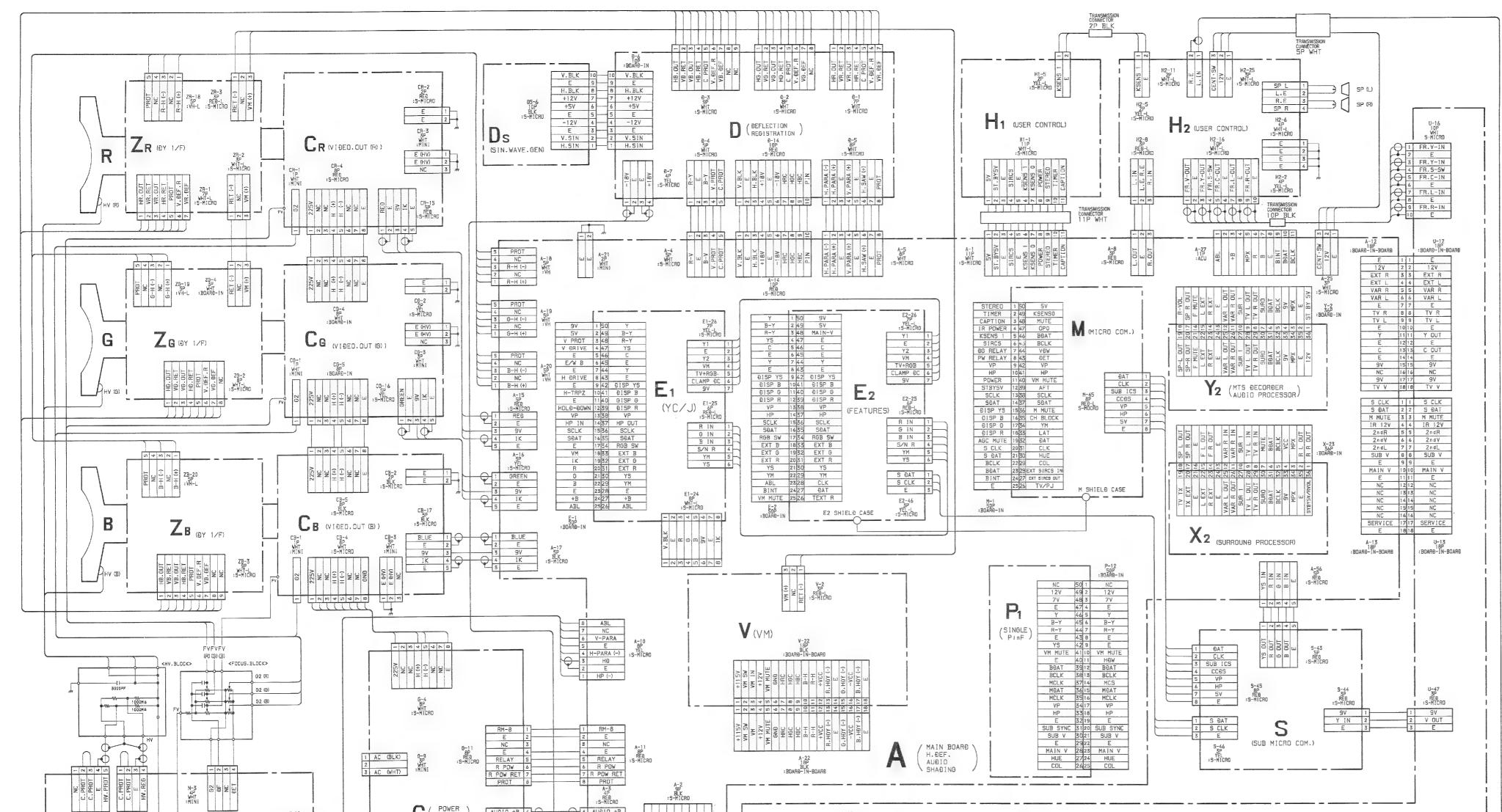
- 1) Connect a frequency counter to Pin 4 (H OUT) of IC 3003.
- 2) Connect Pin ② of IC 3003 to ground.
- 3) Adjust RV3002 for a frequency of 15.734 kHz ±
   50 Hz at Pin (4) of IC 3003.
   (or until the frequency comes to a standstill.)

6-1.BLOCK DIAGRAM (1)





**— 72** —



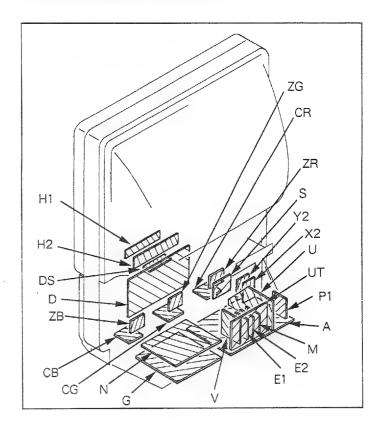
2 AIÐIO (-) 1 AIÐIO (-)

0000000000

N-2 SP 4P SLK 9-MJCRD :5-MICRO

FTB

**— 75** —



#### 6-6.SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

• All capacitors are in  $\mu$ F unless otherwise noted, pF:  $\mu$   $\mu$ F 50WV or less are not indicated except for electrolytics and tantalums.

- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms.
- $k\Omega = 1000 \Omega$ ,  $M\Omega = 1000 k\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm Rating electrical power: 1/4W

- Chips resistors are 1/10W.
- monflammable resistor.
- $\triangle$  : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \_\_\_\_ : earth-ground

**U**(I/0)

- → : earth-chassis
   The components identified by M in this manual have been carefully factory-selected for each set in order to satisfy
- regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

   When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by

Mand repeat the adjustment until the specified value is

- achieved.
  (Refer to R652, R852, R900, R901, and R902 adjustment
- on Page 53~56.)
  When replacing the part in below table, be sure to parform the related adjustment.

routed adjustment		
Part replaced ( )		Adjustment ( 🔣 )
HV Block IC803, IC805, D805, D807 C817, C818, C821, C836, C837, R824, R825, R827, R828, R834, R835, R836, R864, R865, R866, R902	N Board	HV Regurater (R902)
HV Block IC803, IC804, Q804, D806 D808, C809, C819, C820, C822, C823, C850, R807, R826, R829, R832, R833, R837, R838, R839, R840, R841, R892, R893, R900, R901	N Board	HV Hold down (R900, R901)
Q618, Q621, D628, C634, R639, R649, R652, R655, R656,	G Board	OVP (R652)
① IC802, Q805, Q807, D811, D812, C810, C824, C825, C826, C827, C831, R810, R843, R844, R847, R848, R849, R850, R851, R852, R853, R854, R881 ② IC804, Q804, Q808, D808, D809,	N Board	Beme current protecter ①R852 ②R852
C809, C828, C829, C830, C831, R807, R839, R840, R841, R847, R848, R849, R850, R851, R852, R855, R856, R857, R881	N Board	

ference in	for	nation	
SISTOR	:	RN	METAL FILM
	:	RC	SOLID
	:	FPRD	NONFLAMMABLE CARBON
	:	FUSE	NONFLAMMABLE FUSIBLE
	:	RS	NONFLAMMABLE METAL OXIDE
	:	RB	NONFLAMMABLE CEMENT
	:	RW	NONFLAMMABLE WIREWOUND
	:	*	ADJUSTMENT RESISTOR
DIL	:	LF-8L	MICRO INDUCTOR
PACITOR	:	TA	TANTALUM
	:	PS	STYROL
	:	PP	POLYPROPYLENE
	;	PT	MYLAR
	:	MPS	METALIZED POLYESTER
	:	MPP	METALIZED POLYPROPYLENE
	;	ALB	BIPOLAR
	:	ALT	HIGH TEMPERATURE
	:	ALR	HIGH RIPPLE
Readings	are	taken	with a color-bar signal input.
Destines		4	and the second of the last second or a second or second

- Readings are taken with a 10M Ω digital multimeter.
   Voltage are do with respect to ground unless otherwise.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circuled numbers are waveform references.
   -----: B + bus.
- •== =: B bus.
- ==> : signal path.

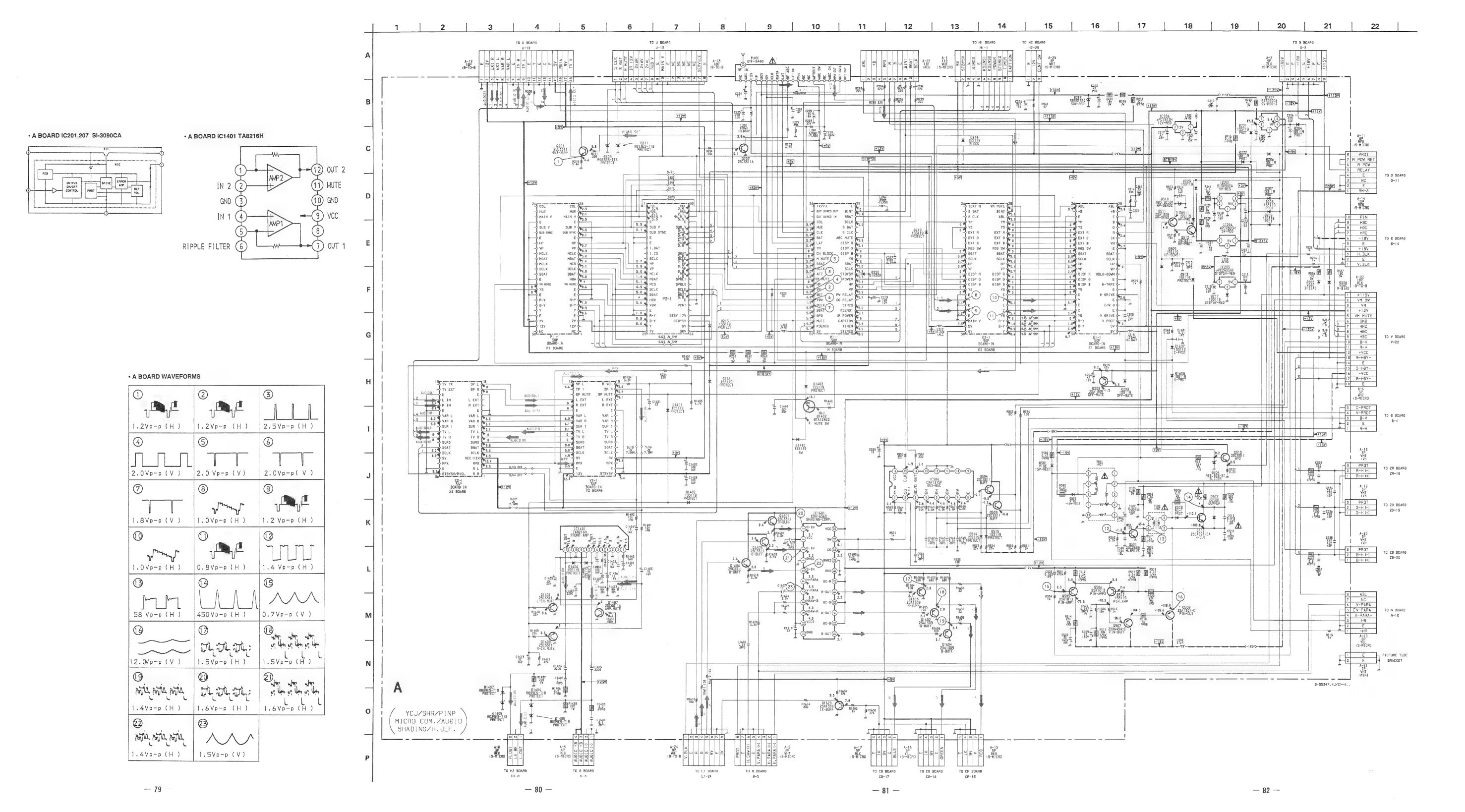
Note: The components identified by shading and mark

A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque A sont d'une importance

critique pour la sécurité. Ne les remplacer

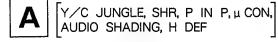
UT ( 1/0 TERMINAL )

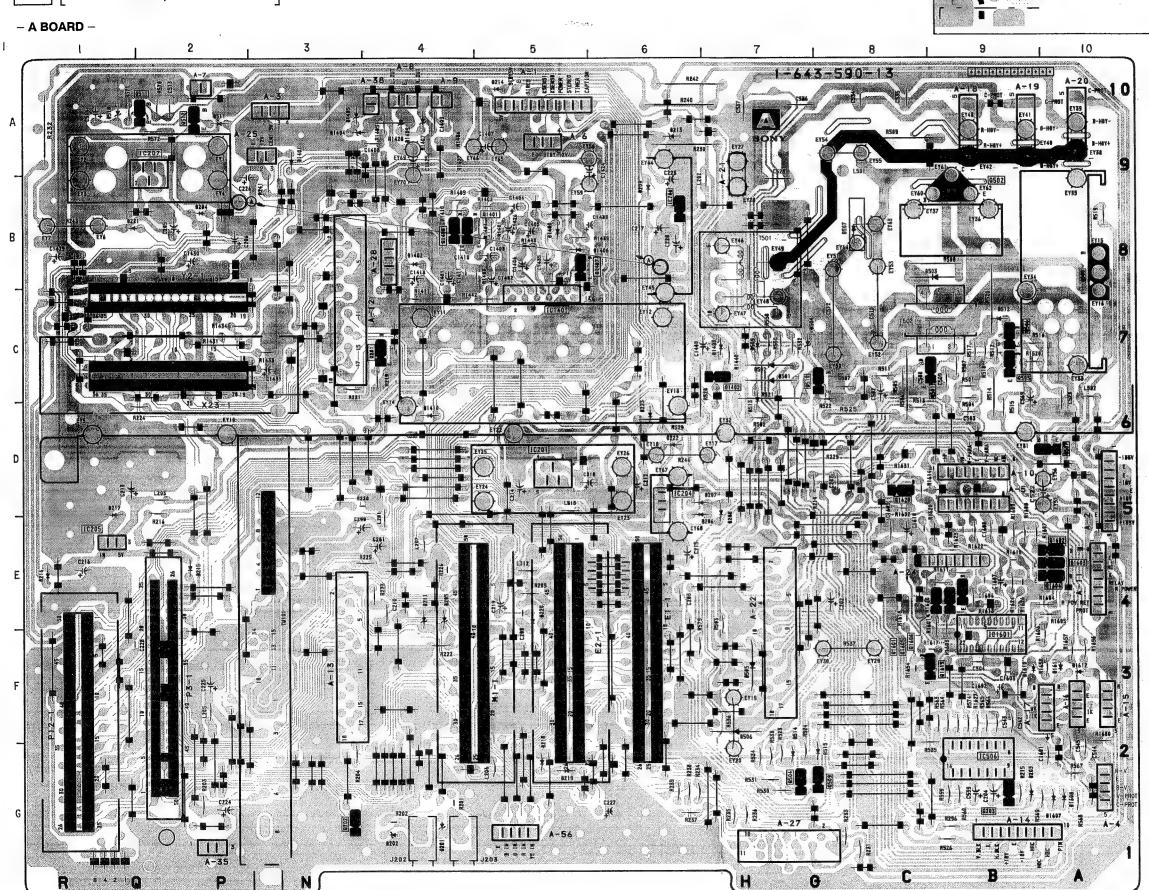




#### NOTE:

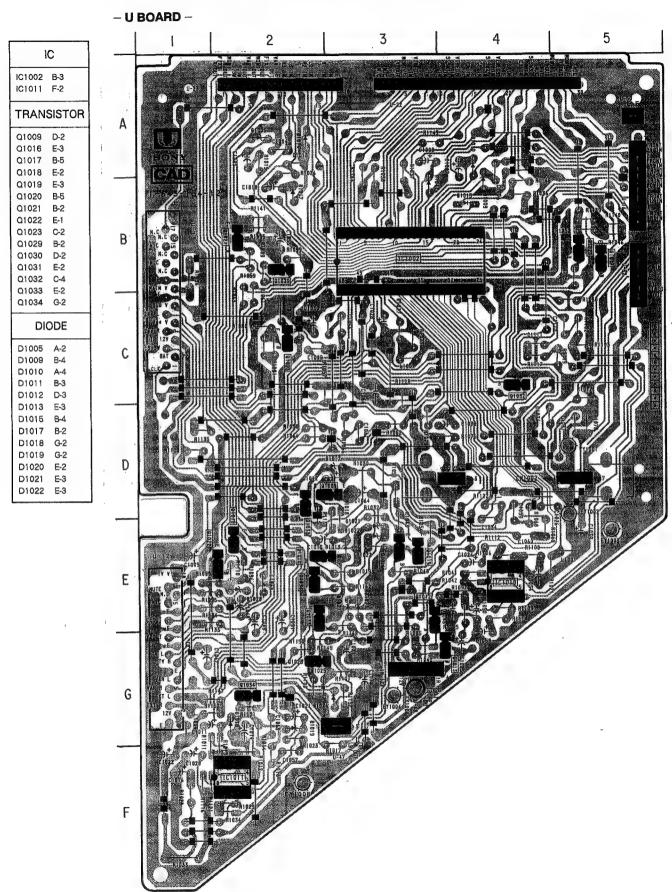
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



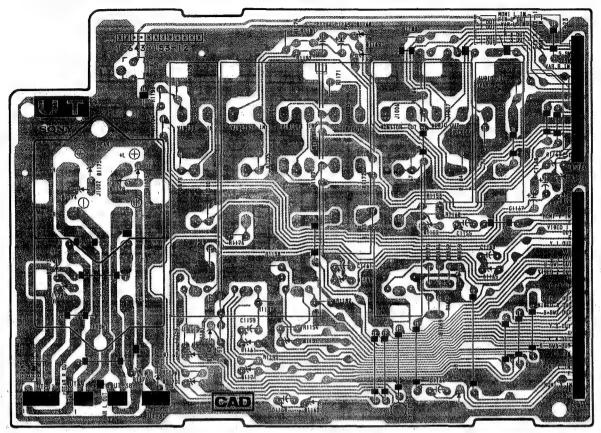


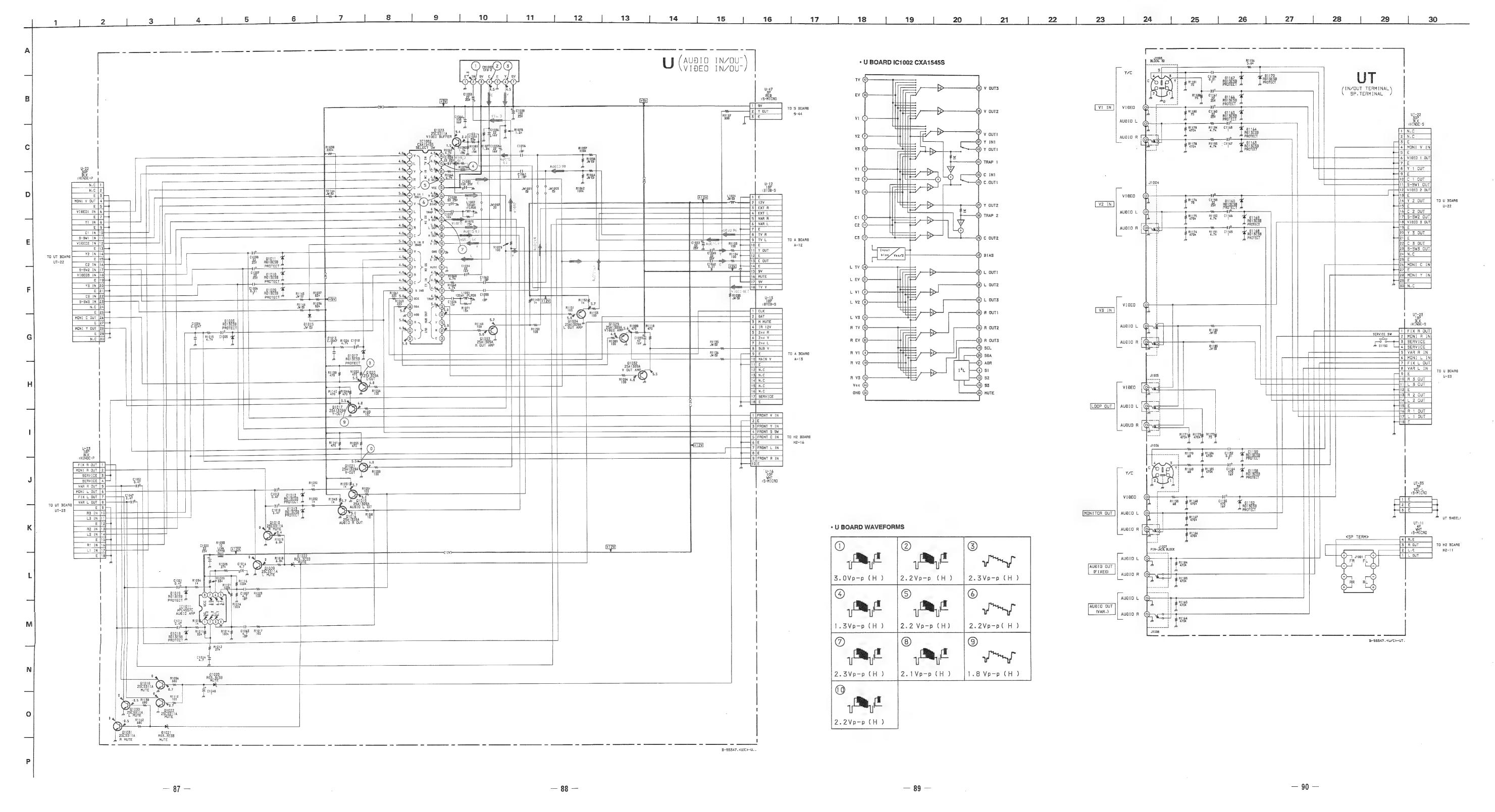
IC		D211	E-4	
		D213	A-6	
IC201	D-5	D214	A-5	
IC204	D-6	D215	E-2	
IC205	E-1	D216	E-1	
	B-6	D217	Ę-1	J
	A-2	D219	G-5	
		D220	E-5	
	G-9	D221	B-1	
	C-5	D221	D-6	
IC1601	F-9	D223	D-6	
TRANS	SISTOR	D501	C-7	
		D502	C-7	
Q201	C-4	D503	B-9	
Q202	G-3	D504	C-7	
Q203	G-9	D505	F-7	
Q501	C-9	D506	F-7	
Q502	B-9	D507	B-8	
Q504	G-7	D509	C-7	
		D510	A-1	
Q505	C-9	D511	A-2	
Q506	C-9	D512		
Q507	D-10		C-9	
	B-10	D513	D-7	
Q509	G-8	D514	G-7	
Q510	C-8	D515	G-8	
Q511	A-2	D1401	A-3	
Q512	A-2	D1402	B-4	
Q1401	B-4	D1403	C-7	
Q1402	C-7	D1404	A-3	
Q1407	B-5	D1405	A-3	
Q1408	B-4	D1406	B-5	
Q1601	E-9	D1407	A-4	
		D1408	B-5	
Q1602	E-10	D1408	A-4	_
Q1603	E-10	l		
Q1604	E-10	D1410	D-4	
Q1605	E-9	D1607	.G-10	
Q1606	E-9	D1608	G-10	
Q1620	D-8			
DIC	DE			
D203	G-9	1		
D204	B-2			
D205	E-4			
D206	D-7			
D206	D-7			
	-			
D208	E-7			
D209	B-6			









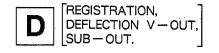


## 16 17 18 19 20 21 22 23 10 11 12 13 RY957 RY951 RY974 BY974 BY974 RY974 RY974 BY974 RY974 R1871 R1879 180k :RN V/WING H/M.PIN M.LIN.S PIN SUB SKEW SUB BOW KEYS BOW -18V B1702 155119 R1894 CLAMP :AN R1755 155119 ☐ C1722 R1767 R1838 27k D ( REGISTRATION ) DEFLECTION V-OUT, SUB-OUT) 1C908 #PC4558C hote Limit is 1% OF :RN RESISTOR B-59347.<U/C>-0.. ⊋ 1.901 9 45#H # 81721 RB2.0ES-B1 PROTECT 0 34 A-5 CRT BRACKET — 92 — — 93 — **— 94 —**

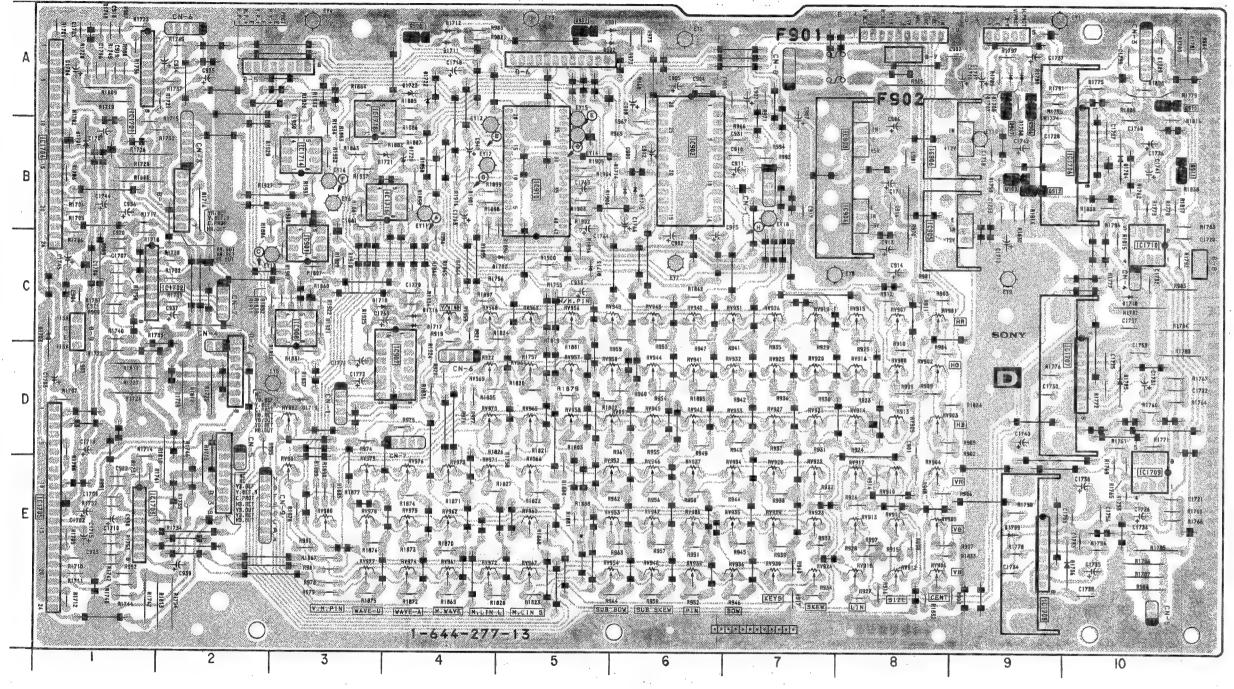
#### • D BOARD WAVEFORMS

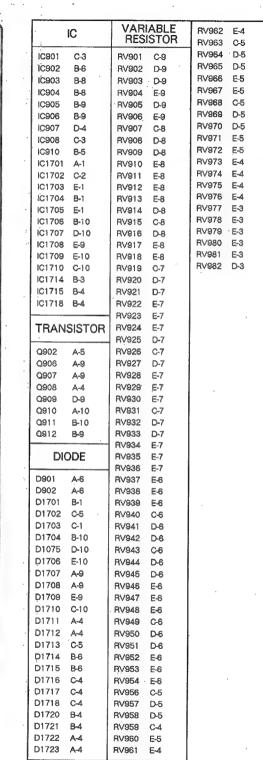
 $\sim$ 2.6Vp-p(H) 2.7Vp-p (H) 2.2Vp-p(V) 4.4Vp-p(H) 2.4 Vp-p (V) 2.4Vp-p(H) 4.0Vp-p(V) 2.3 Vp-p(V) 4.2Vp-p(H) 2.2Vp-p(V) 2.6 Vp-p (V) 1.8Vp-p(V) 2.2Vp-p(H) 1.3Vp-p(V)2.1 Vp-p (V) 2.3Vp-p(H) 6.2Vp-p(V) 6.6Vp-p (V) 2.8Vp-p(V) ).48Vp-p (V ) 2.4 Vp-p (H) 2.2Vp-p(V) 23 36.0Vp-p(V) 32.0Vp-p(H) 20.0Vp-p(V)32.0Vp-p(V) 24.0Vp-p(H) 26.0Vp-p(H) 1.3 $V_p-p(V)$  68.0 $V_p-p(V)$ 1.6Vp-p(H)

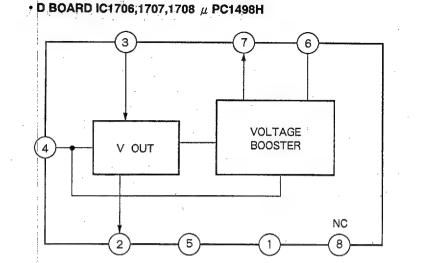
2.2Vp-p(V)



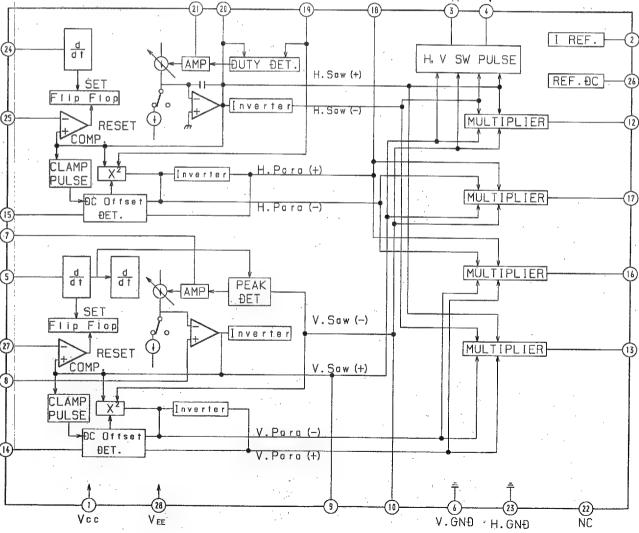
#### - D BOARD -







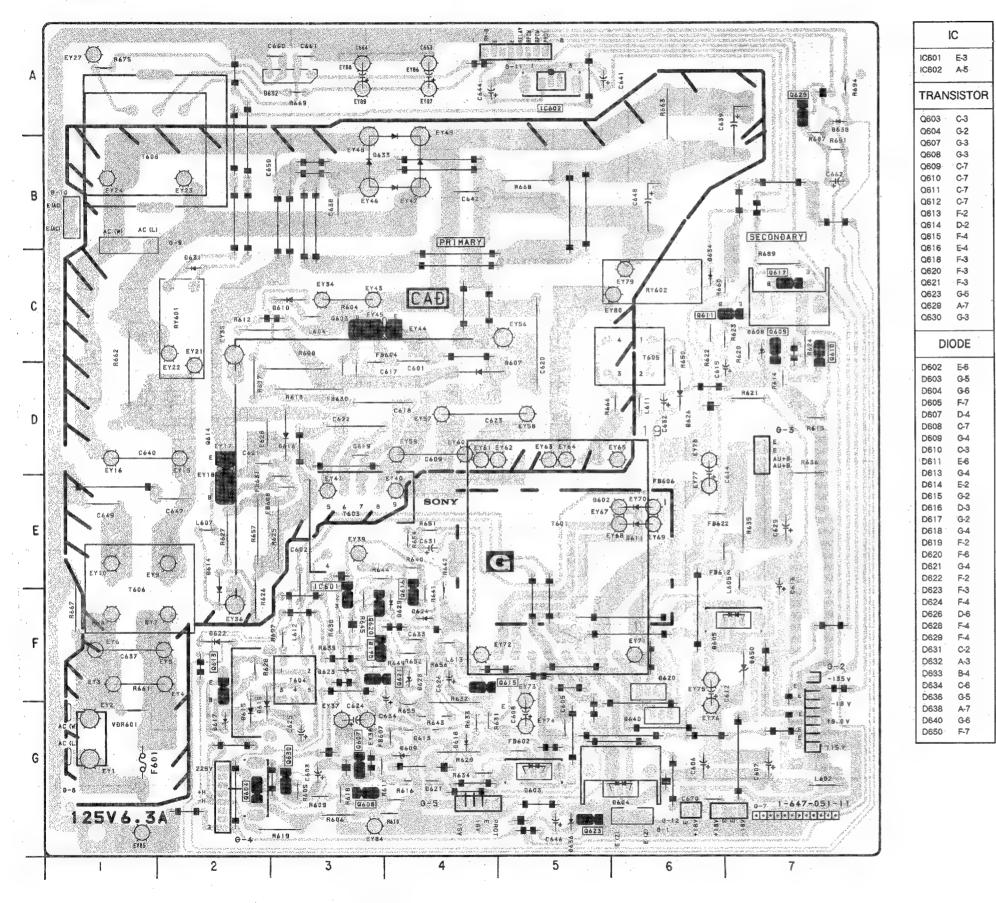
## • D BOARD IC902 CXA1268P



#### KP-41EXR96 RM-Y112A

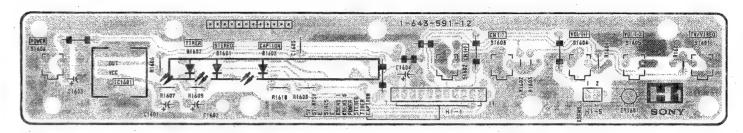
G [POWER SUPPLY] H1 [USER CONTROL] H2 [USER CONTROL] DS [SIN. WAVE. GEN ]

- G BOARD -

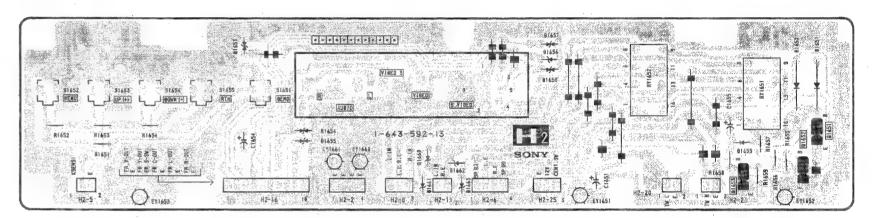


KP-41EXR96 KP-41EXR96 RM-Y112A RM-Y112A

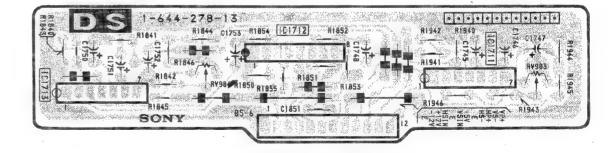
#### - H1 BOARD -



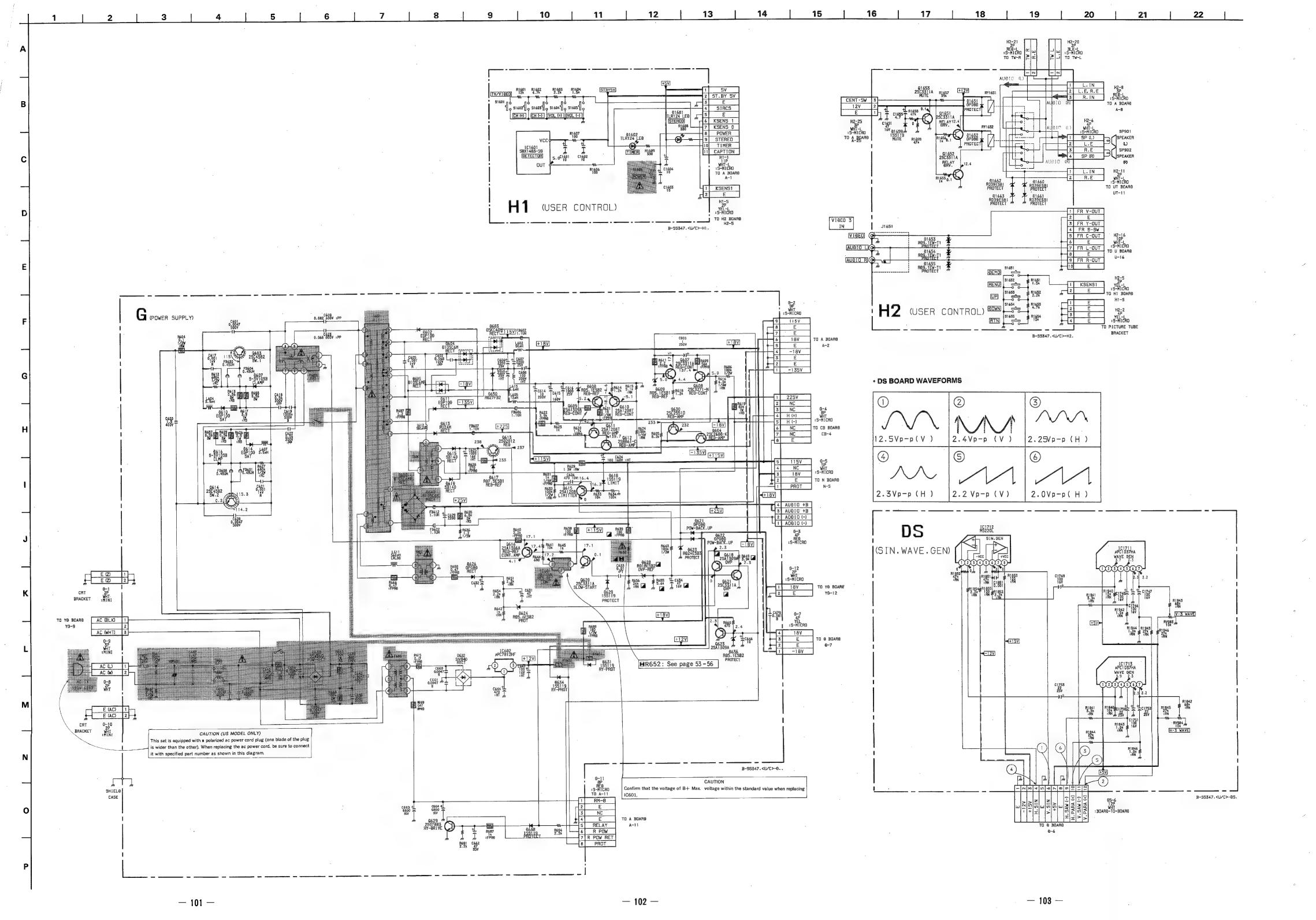
#### - H2 BOARD -

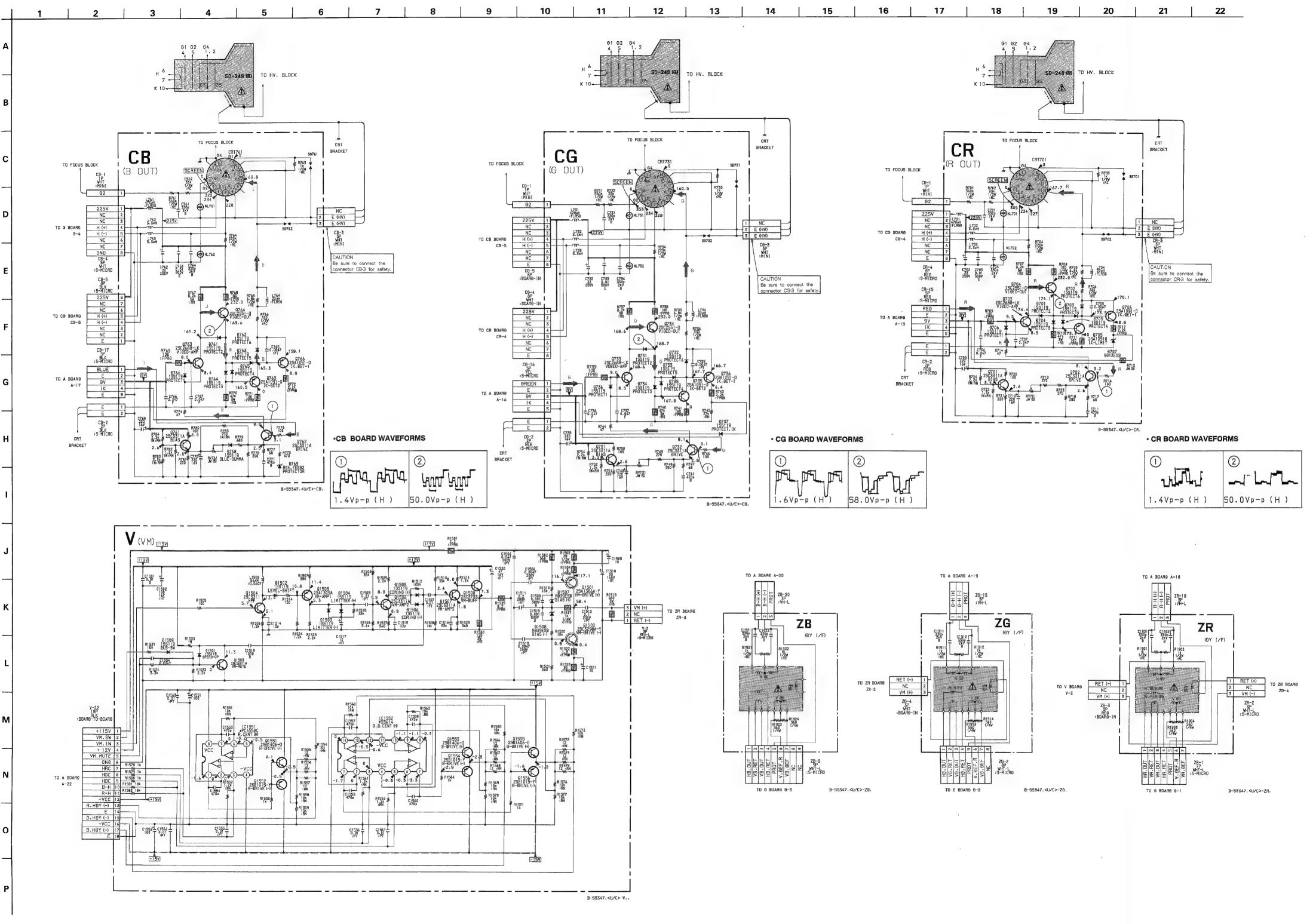


#### - DS BOARD -



- 99 - - 100 --





KP-41EXR96 RM-Y112A

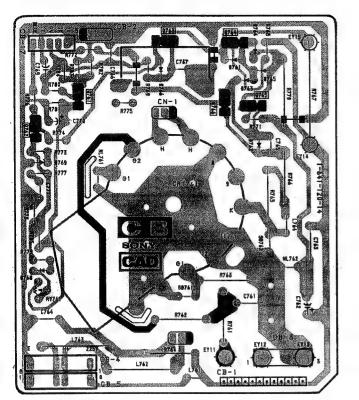
KP-41EXR96 RM-Y112A



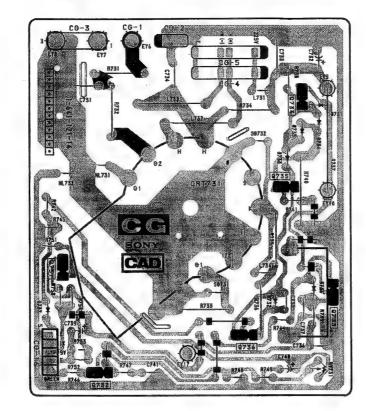




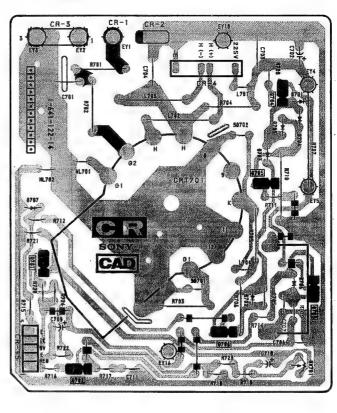
- CB BOARD -



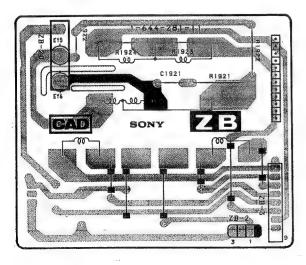
-- CG BOARD --



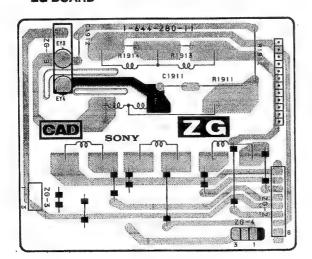
- CR BOARD -



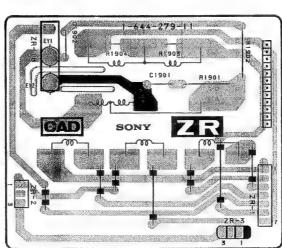
- ZB BOARD -



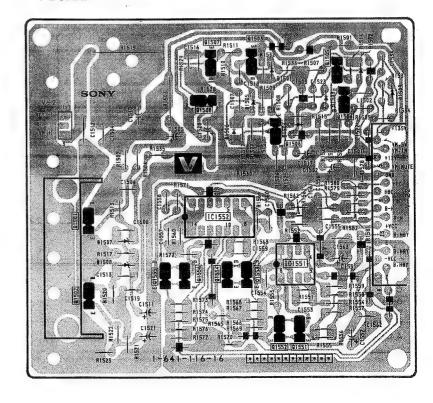
- ZG BOARD -



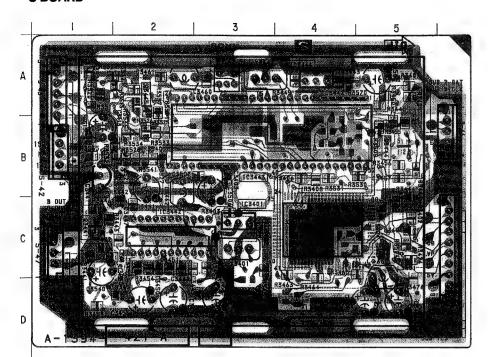
- ZR BOARD -

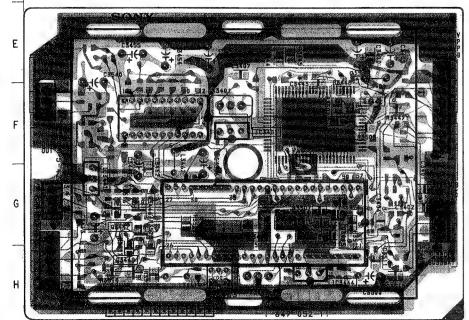


- V BOARD -



#### - S BOARD -





1	С	TRAN	SISTOR
IC3401 IC3402	C-3, F-1 C-3	Q3441 Q3444	C-1 B-5
IC3441 IC3442 IC3443	B-1, G-1 C-2, F2 B-3, G-3	DIC	DDE
IC3444	A-4, H-4	D3444	B-5

#### : Pattern from the side which enables seeing. Pattern of the rear side.

#### -- N BOARD --

IC803

Q801

Q802

Q804

Q805

Q808

D801 D802

D804

D805

D807

D808

D809

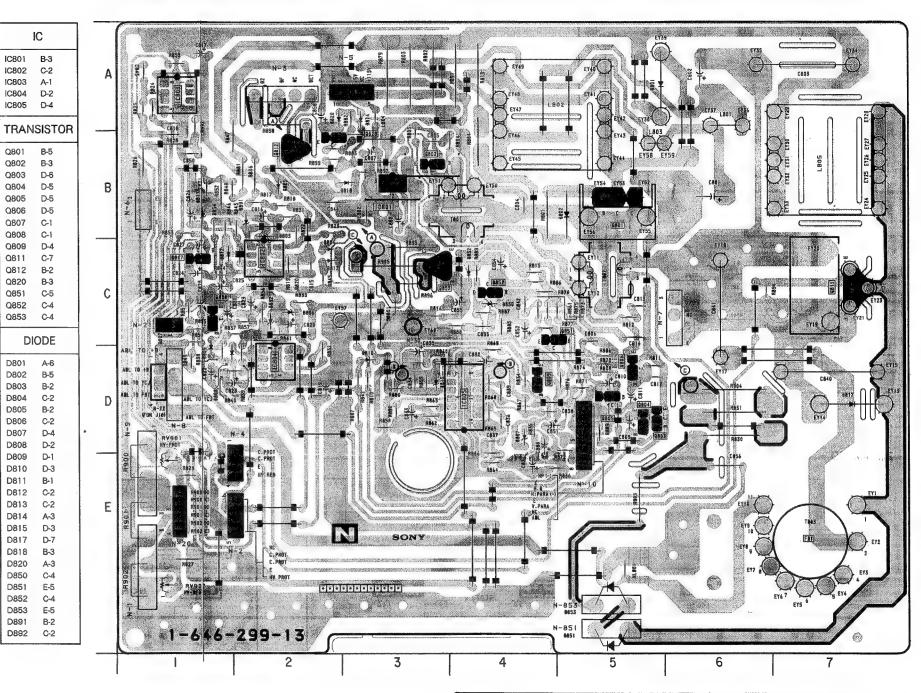
D811

D812

D815

D820

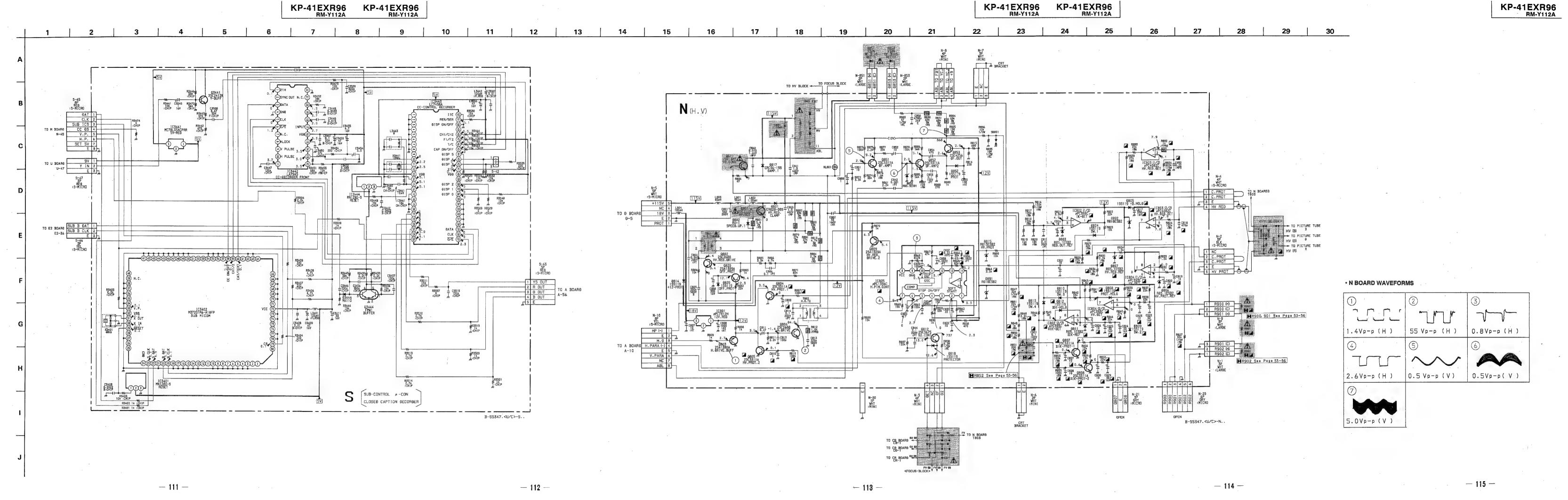
D852

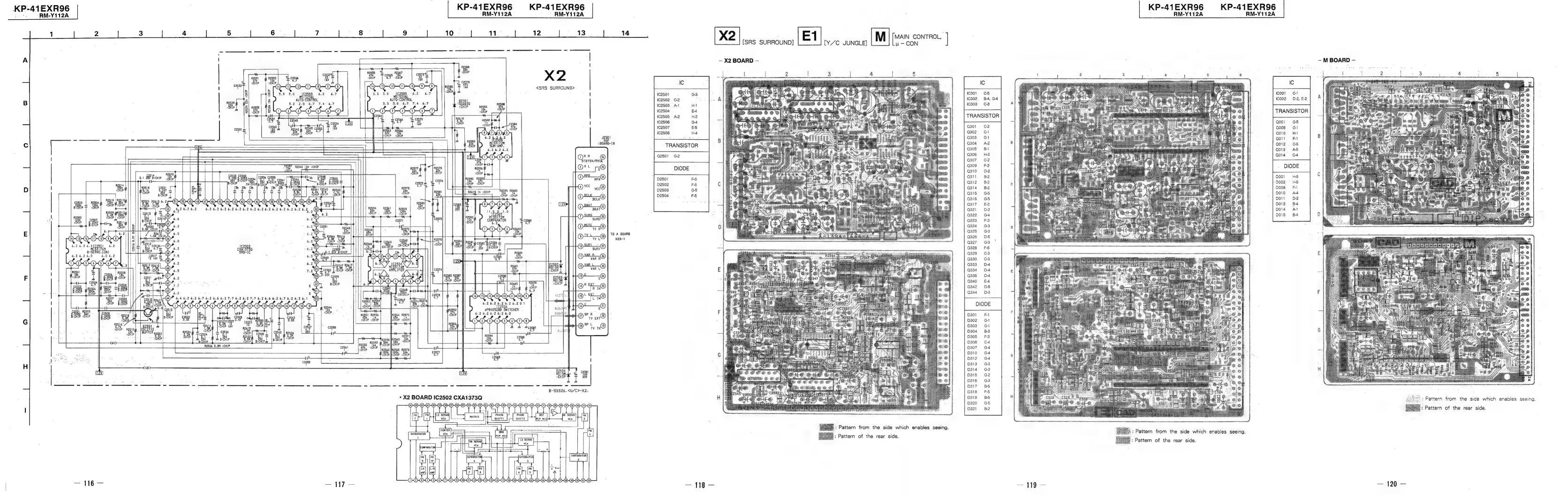




#### NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.





# 0.8 Vp-p(H) 0.8 Vp-p(H) 22 Vp~p(H) • M BOARD WAVEFORMS 1.6 Vp-p(V) 2.0 Vp-p(H) 4.2Vp-p (V) 2.4Vp-p (H) 5∨p-p (H) 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 <MAIN CONTROL #-CON> 4.5 R039 R040 4.5 CHIP CHIP 0.5 0009 25C2412K V-PULSE R073 2.2% :CHIP 8305 \$ 6.8 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | 1.6 to Chilp | R082 220 220 230 241P ∴CHIP R104 220 :CHIP (A) SE TO SE E1 <Y/C JUNGLE> B-95347.<U/C>-M.. M-45 8P WHT-L :5-MICRO B-55347.<U/C>-E1. E1-001 50P :BOARD-IN TO 5 BOARD 5-45 TO A BOARD E1-1

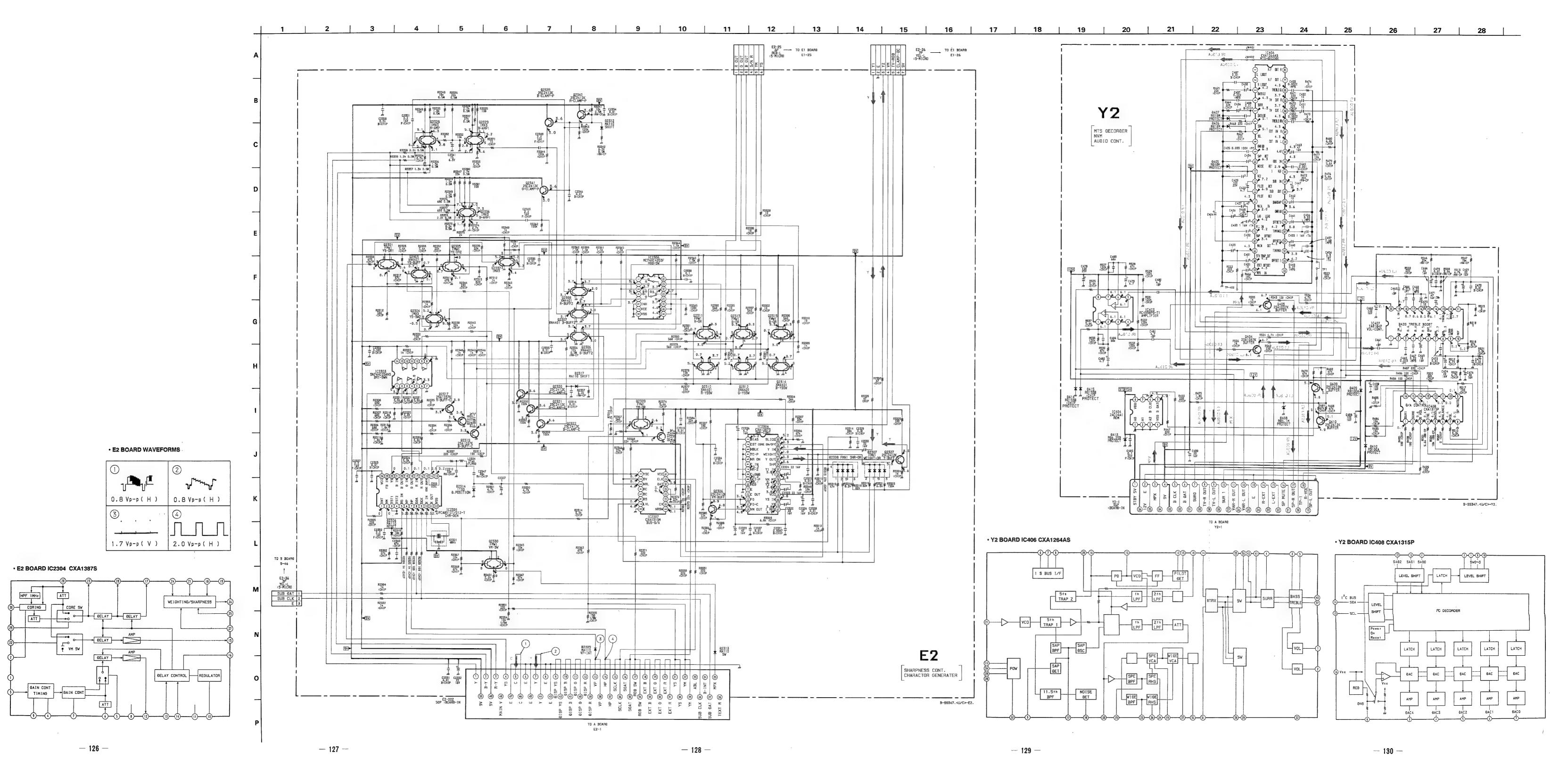
— 122 —

— 121 —

— **123** —

— **124** —

— 1**25** —

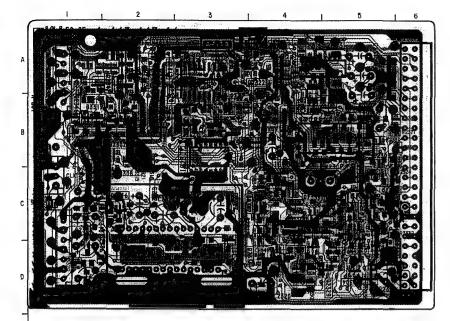


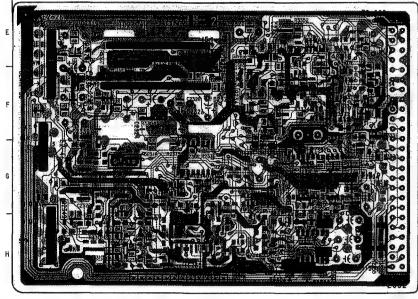
- Y2 BOARD -



MTS DECORDER, NVM, AUDIO CONT

- E2 BOARD -





: Pattern from the side which enables seeing. Pattern of the rear side.

IC2031 B-4 IC2303 A-5 IC2304 D-3, E-2 IC2306 H-3 IC2307 B-3

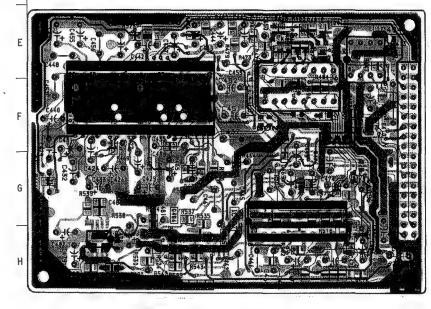
**TRANSISTOR** 

Q2301 C-5 Q2303 C-5 Q2304 D-5 Q2305 C-5 Q2306 A-3 Q2307 B-4 Q2308 A-3 Q2309 B-2 Q2310 A-2 Q2311 A-2 Q2312 A-2 Q2313 A-2 Q2314 A-2 Q2315 A-2 Q2317 H-4 Q2318 G-4 Q2319 G-5 Q2320 A-4 Q2321 A-4 Q2322 A-4 Q2324 B-3 Q2326 E-1 Q2327 E-2 Q2328 D-4 Q2329 D-4 Q2330 . C-4 Q2336 C-5

DIODE D2306 C-5 D2307 B-2 D2308 B-2 D2309 B-5 D2312 C-4 D2313 C-4 D2314 B-5

D2317 A-4

Q2337 B-3 Q2339 F-4 Q2340 F-4 Q2341 F-4



: Pattern from the side which enables seeing. : Pattern of the rear side.

IC

IC404 D-5, E-5

IC408 C-4, F-4

**TRANSISTOR** 

H-3

D-5

F-2

E-4

A-5

E-6

F-4

C-5, F-5

DIODE

C-2, F-2

A-4, G-4

IC403 H-1

IC406

IC407

Q404

Q405

Q409

Q410 E-5

D405

D406

D407 F-3

D408

D409

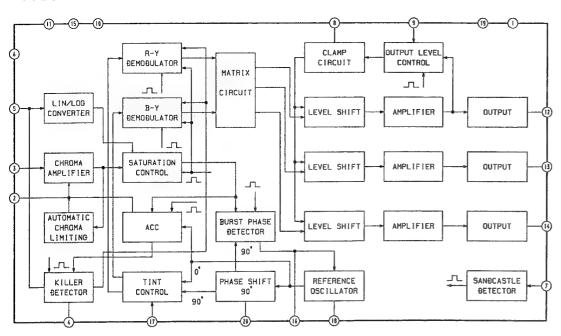
D410

D413

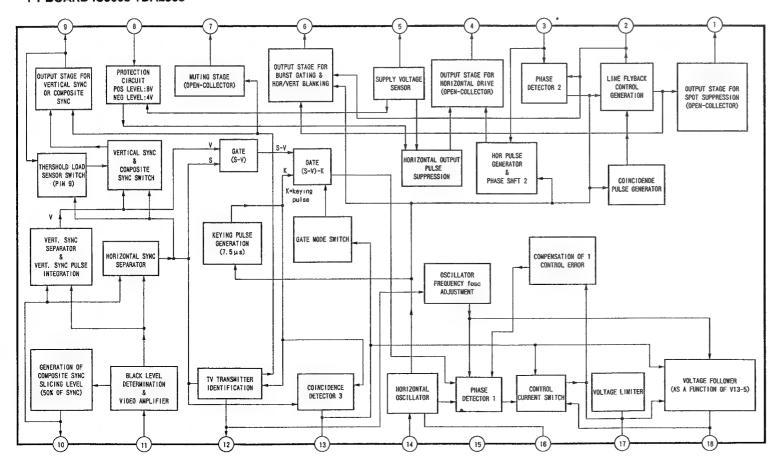
D414

D415 8-5

#### • P1 BOARD IC3001 TDA3769

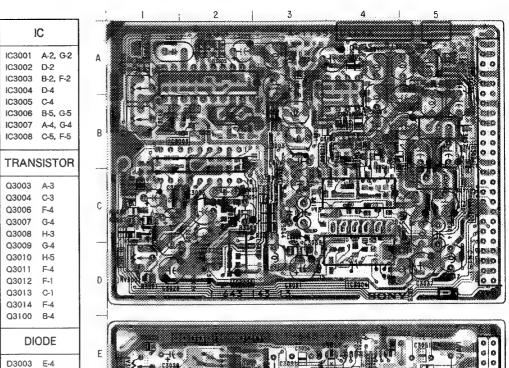


#### • P1 BOARD IC3003 TDA2595



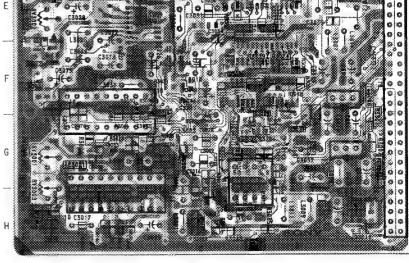


#### - P1 BOARD -



D3004 B-5 D3009 C-1 VARIABLE RESISTOR

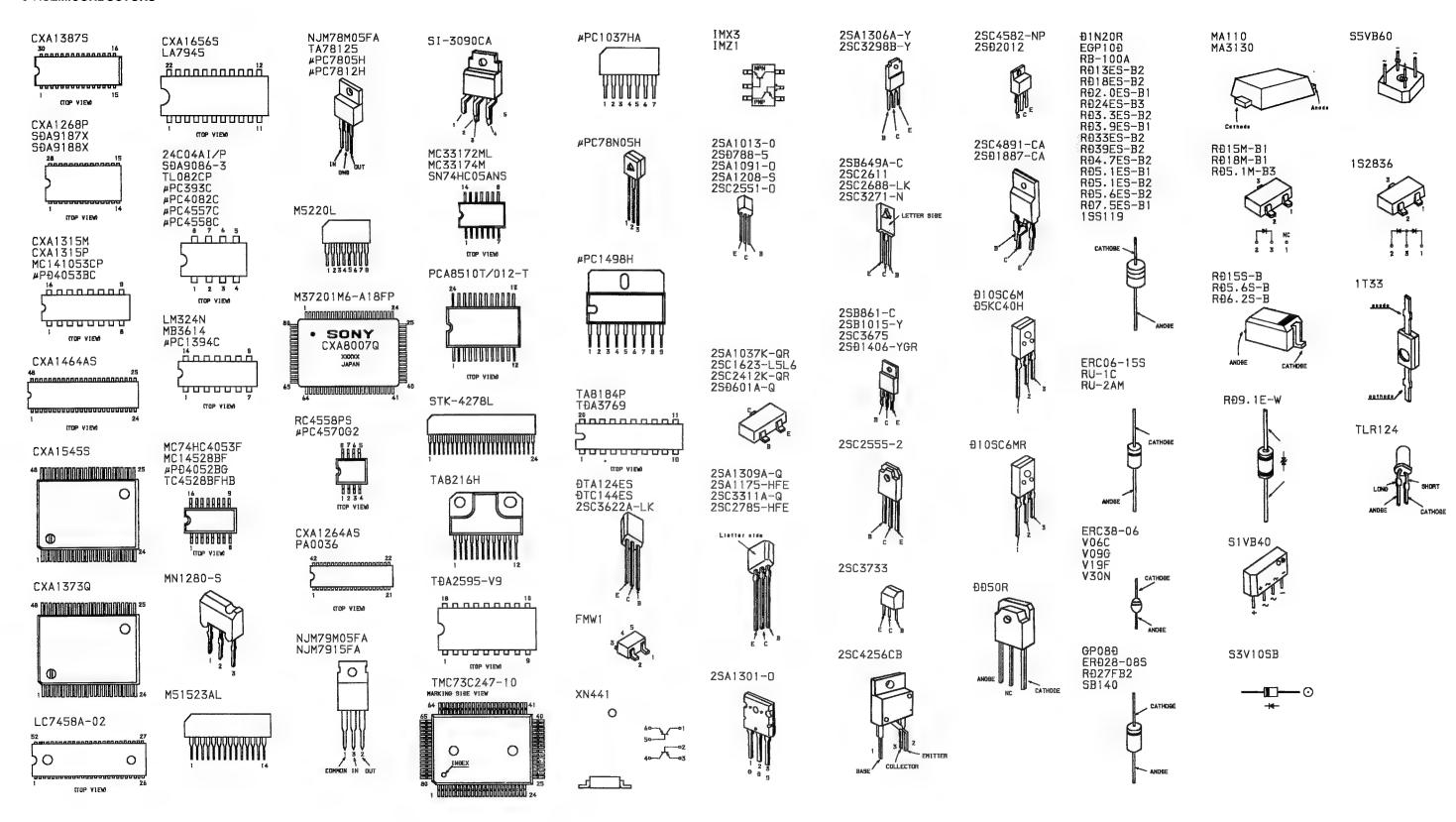
RV3001 B-1, G-1 RV3002 D-1, E-1 RV3003 A-1, G-1



Pattern from the side which enables seeing.

: Pattern of the rear side.

#### 6-7.SEMICONDUCTORS



#### SECTION 7 EXPLODED VIEWS

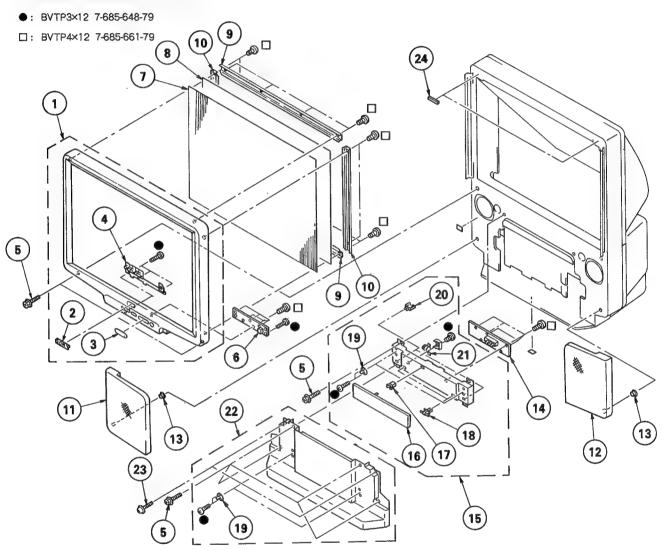
#### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified. Les composants identifies par une trame et une marque 🛦 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

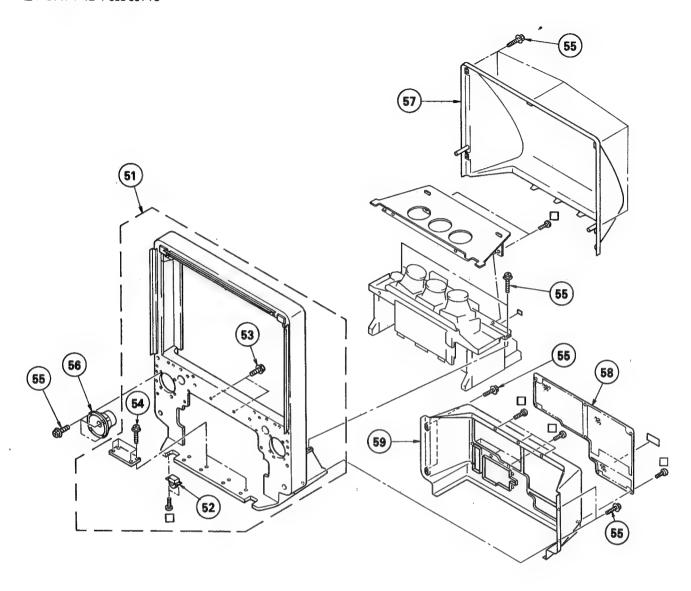
#### 7-1.SCREEN FRAME AND CONTROL PANEL



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	. PART NO.	DESCRIPTION	REMARK
1 2 3 4 5	3-704-179 <b>-</b> 01 4-036-087-21	FRAME ASSY, SCREEN EMBLEM (NO.9), SONY COVER, INDICATOR BUTTON, CONTROL SCREW, TAPPING, HEXAGON HEAD	2~4	13 14 15 16 17	*1-643-592-11	LATCH H2 BOARD PANEL ASSY, CONTROL LID, FRONT CATCH, PUSH	16~21
6 7 8 9 10	4-036-520-01	HI BOARD PLATE (L), DIFFUSION PLATE (F), DIFFUSION HOLDER (L), SCREEN HOLDER (S), SCREEN		18 19 20 21 22	3-703-035-11 4-843-806-00 *4-314-320-00 3-721-204-01 X-4030-347-1	SHAFT, LID STRIKE HOLDER, WIRE DAMPER COVER ASSY, FRONT	19
11 12	X-4030-346-1 X-4030-348-1	GRILLE (L) ASSY, SPEAKER GRILLE (R) ASSY, SPEAKER		23 24	4-304-851-11 4-039-110-01	SCREW (4X25), (+) PWH TAPPING SPACER (CA)	

#### 7-2.CABINET AND BACK COVER

☐: BVTP4×12 7-685-661-79



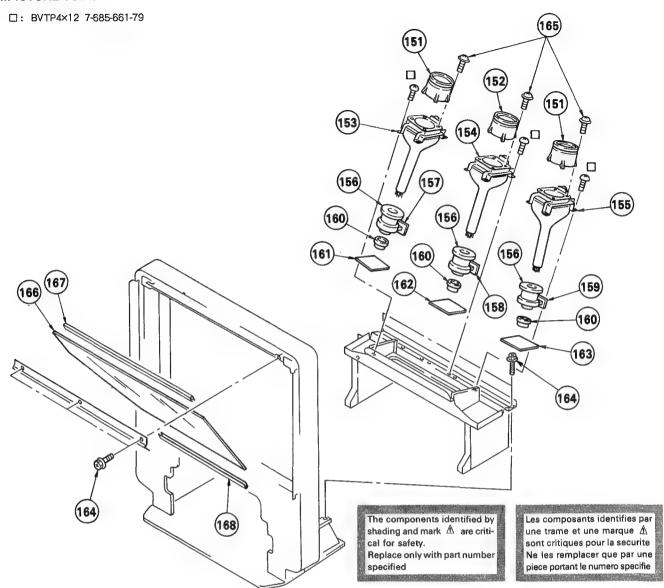
REF.NO	. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51 52 53 54 55	*X-4031-104-1 4-040-755-01 4-378-522-01 4-378-522-21 4-378-522-31	CABINET ASSY CASTER (DIA. 30) SCREW, TAPPING, HEXAGON HEAD SCREW, TAPPING, HEXAGON HEAD SCREW, TAPPING, HEXAGON HEAD	52~54	56 57 58 59	1-544-768-11 4-036-136-01 4-036-527-01 X-4030-402-1	COVER, MIRROR PLATE, REAR	

#### 7-3.CHASSIS

●: BVTP3×12 7-685-648-79 ☐: BVTP4×12 7-685-661-79 Δ: PSW4×14 7-682-663-09 (115) (121) (120 113 109 (108) (106 (127)(102) The components identified by shading and mark A are criti-Les composants identifies par (103 une trame et une marque A cal for safety. Replace only with part number sont critiques pour la securite. Ne les rémplacer que par une piece portant le numero specifie. specified.

REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	DS BOARD D BOARD, COMPLETE SPRING, TRANSISTOR RESISTOR ASSY (HIGH-VOLTAGE) S BOARD, COMPLETE		118	*A-1394-422-A *A-1394-432-A 4-039-112-01 *A-1342-214-A 4-373-137-01	U BOARD, COMPLETE UT BOARD, COMPLETE WASHER, WAVE V BOARD, COMPLETE CAP (Z), RUBBER	
106 *A-1297-079-A 107 *A-1346-138-A 108 *A-1346-137-A 109 *A-1306-436-A 110 *A-1195-066-A	E2 BOARD, COMPLETE M BOARD, COMPLETE	107~112	123 124 125 A	4-034-482-01 *A-1390-351-A L-453-121-11	DC BLOCK, HIGH-VOLTAGE COVER, FBT N BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK (NX G BOARD, COMPLETE	-2630B4)
111 *A-1394-444-A 112 *A-1394-443-A 113 <u>A.</u> 1 693 -102-21 114 *1-555-110-00 115 1-561-306-00 116 4-036-137-03	Y2 BOARD, COMPLETE		128 A 129 130		GROWMET, AC CORD CORD, POWER (WITH NOISE FILTE SPACER, SUPPORT WASHER LEAD ASSY, HIGH-VOLTAGE PANEL (A), TERMINAL	
			1			

#### 7-4.PICTURE TUBE



REF.NO. PART NO.	DESCRIPTION REMAR	K REF.	NO. PART NO.	DESCRIPTION REMARK	
151 4-034-057-01 152 4-034-057-11 153 & 8-736-633-05 154 & 8-736-631-05 155 & 8-736-632-05	LENS (LINNIT) PICTURE TUBE (SD-249 (R)) PICTURE TUBE (SD-249 (G))	160 161 162 163 164	*A-1331-259-A *A-1331-260-A *A-1331-261-A	NECK ASSY, PICTURE TUBE(NA367) CR BOARD, COMPLETE CG BOARD, COMPLETE CB BOARD, COMPLETE SCREW, TAPPING, HEXAGON HEAD	
156	ZR BOARD, COMPLETE ZG BOARD, COMPLETE	165 166 167 168		SCREW, TERMINAL MIRROR (41), REFLECTION PROTECTOR, MIRROR PROTECTOR, MIRROR	

## SECTION 8 ELECTRICAL PARTS LIST



NOTE:

specified.

The components identified by shading and mark A are critical for safety.

Replace only with part number

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

#### RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS COILS 
• MF :  $\mu$ F, PF :  $\mu$ F 
• MMH :  $\mu$ H 
• MH :  $\mu$ H

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO	. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	l -		REMARK
	*A-1297-079-A  4-382-854-11   *CON *1-564-514-11 *1-564-512-11 *1-564-508-11 *1-564-511-31 *1-564-511-31 *1-564-511-31 *1-564-513-31 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-508-786-00 1-573-297-11 *1-508-786-00 1-573-297-11 *1-564-508-11	A BOARD, COM	PLETE ***** ), P, SW (+	) ·		C226 C227 C299 C502 C503	1-124-120-11 1-124-621-11 1-126-101-11 1-126-182-11 1-130-487-00	ELECT ELECT ELECT ELECT MYLAR	220MF 3300MF 100MF 0.47MF 0.022MF	20% 20% 20% 20% 5%	16V 6.3V 16V 50V 50V
	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td>C504</td><td>1-136-153-00</td><td>FILM</td><td>0.01MF 0.047MF</td><td>5%</td><td>50V</td></con<>	NECTOR>				C504	1-136-153-00	FILM	0.01MF 0.047MF	5%	50V
A1 A2 A3 A4 A5	*1-564-514-11 *1-564-512-11 *1-564-507-11 *1-564-508-11 *1-564-511-11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR 11P TOR 9P TOR 4P TOR 5P TOR 8P			C508 C509 C510 A	1-100-383-00 1-102-973-00 1-102-030-00 1-136-565-11	CERAMIC CERAMIC FILM	100PF 330PF 0:015MF	5% 10% 3%	person and territorispensational contraction of
A10 A11 A12 A13	*1-564-511-41 *1-564-511-31 1-573-297-11 1-573-297-11	PLUG, CONNEC PLUG, CONNEC CONNECTOR, B CONNECTOR, B	TOR 8P TOR 8P OARD TO BOA OARD TO BOA	RD 18P RD 18P		C513 C514 C522 C523	1-136-598-11 1-136-153-00 1-124-477-11 1-123-024-21 1-106-383-00	FILM ELECT ELECT MYLAR	0.01MF 47MF 33MF 0.047MF	5% 20%	50V 16V 160V 200V
A14 A15 A16 A17 A18	*1-564-513-31 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-691-291-11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLU CONNECT	TOR 10P TOR 5P TOR 5P TOR 5P OR (PC ROAR	n) 5p		C528 C534 C535 C536 C537	1-124-662-11 1-124-011-00 1-124-011-00 1-124-662-11 1-124-662-11	ELECT ELECT ELECT ELECT ELECT	220MF 220MF 220MF 220MF 220MF	20% 20% 20% 20% 20%	50V 16V 16V 50V 50V
A19 A20 A21 A22	*1-691-291-11 *1-691-291-11 *1-508-786-00 1-573-297-11	PIN, CONNECT PIN, CONNECT PIN, CONNECT CONNECTOR, DESCRIPTION	OR (PC BOAR OR (PC BOAR OR (5MM PIT	D) 5P D) 5P CH) 2P RD 18P		C539 C542 C543 C544 C545	1-124-907-11 1-136-153-00 1-136-153-00 1-136-153-00 1-136-153-00	ELECT FILM FILM FILM FILM	10MF 0.01MF 0.01MF 0.01MF 0.01MF	20% 5% 5% 5% 5%	50V 50V 50V 50V 50V
A25 A27 A56	*1-564-506-11 *1-573-979-11 *1-564-508-11	CONNECTOR, B	OARD TO BOA	RD 11P		C569 C1401 C1402 C1403 C1404	1-126-355-11 1-124-910-11 1-126-157-11 1-126-157-11 1-126-157-11	ELECT ELECT ELECT ELECT ELECT	33MF 47MF 10MF 10MF 10MF	20% 20% 20% 20% 20%	160V 50V 16V 16V 16V
C201 C202 C203 C204 C205	1-124-910-11 1-124-903-11 1-130-495-00 1-124-477-11 1-124-557-11	ELECT ELECT ELECT MYLAR ELECT ELECT	47MF 1MF 0.1MF 47MF 1000MF	20% 20% 5% 20%	50V 50V 50V 16V 25V	C1406 C1407 C1408	1-124-910-11 1-126-101-11 1-126-057-11 1-136-165-00 1-136-165-00	ELECT ELECT FILM	100MF 2200MF 0.1MF 0.1MF	20% 5% 5%	50V 16V 50V 50V 50V
C206 C207 C210 C212 C213	1-126-101-11 1-124-242-00 1-102-121-00 1-126-803-11 1-126-103-11	ELECT ELECT CERAMIC ELECT ELECT	100MF 33MF 0.0022MF 47MF 470MF	20% 20% 10% 20% 20%	16V 16V 50V 16V 16V	C1424 C1425 C1426	1-124-234-00 1-126-057-11 1-126-057-11 1-126-157-11 1-126-101-11		22MF 2200MF 2200MF 10MF 100MF	20% 20% 20%	16V 50V 50V 16V 16V
C214 C215 C216 C217 C218	1-126-101-11 1-126-803-11 1-126-101-11 1-126-803-11 1-126-103-11		100MF 47MF 100MF 47MF 470MF	20% 20% 20% 20% 20%	16V 50V 16V 25V 16V	C1431 C1435 C1440	1-126-101-11 1-124-916-11 1-124-916-11 1-126-336-11 1-130-483-00	ELECT	100MF 22MF 22MF 220MF 0.01MF	20% 20% 20% 20% 5%	16V 50V 25V 25V 50V
C219 C220 C223 C224 C225	1-124-443-00 1-126-803-11 1-126-803-11 1-124-261-00 1-124-120-11	ELECT ELECT ELECT ELECT ELECT	100MF 47MF 47MF 10MF 220MF	20% 20% 20% 20% 20% 20%	10V 25V 25V 25V 50V 16V	C1603 C1607 C1608 C1609 C1610	1-136-153-00 1-124-907-11 1-136-153-00 1-136-153-00 1-124-916-11	ELECT Film Film	0.01MF 10MF 0.01MF 0.01MF 22MF	5% 20% 5% 5% 20%	50V 50V 50V 50V 50V



Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
<pre>D203 8-719-911-19 D204 8-719-911-19</pre>	DE>		L502 L515	1-459-313-00 1-410-645-31	COIL WITH CO INDUCTOR	RE (HWC) 100U	) H		
D204 8-719-911-19 D205 8-719-911-19 D207 8-719-911-19	DIODE 133119 DIODE RD13ES-B2 DIODE 1SS119 DIODE 1SS119		Q201	<tra 8-729-119-78</tra 	NSISTOR> TRANSISTOR 2	SC2785-1	HFE		
D208 8-719-911-19 D209 8-719-911-19 D211 8-719-110-36 D213 8-719-110-78	DIODE 1SS119 DIODE 1SS119 DIODE RD13ES-B2 DIODE RD3ES-B2 DIODE RD3ES-B2		Q202 Q203 Q501 Q502	8-729-119-78 8-729-119-76 8-729-119-80 8-729-014-88	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-1 SA1175-1 SC2688-1 SC4891-1	HFE HFE LK CA		
D214 8-719-911-19 D215 8-719-911-19 D216 8-719-911-19 D217 8-719-911-19 D219 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		Q505 Q506 Q507 Q508	8-729-201-32 8-729-201-32 8-729-304-92 8-729-204-16	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1013-0 SA1013-0 SB649A-0 SA1301-0	0		
D220 8-719-510-48  D221 8-719-911-19  D222 8-719-911-19  D223 8-719-911-19  D501 8-719-971-20	DIODE DINZOR  DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE ERC38-06		Q510 Q511 Q511 Q512 Q1401	8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-78 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-1 SC2785-1 SA1175-1 SC2785-1 SC2785-1	HPE HPE HPE HPE		
D502 8-719-971-20 D503 8-719-300-80 D504 8-719-109-88 D505 8-719-900-95 D506 8-719-900-95	DIODE ERC38-06  DIODE RU-1C DIODE RD5.6ES-B1 DIODE VO9G DIODE VO9G		Q1402 Q1407 Q1408 Q1601 Q1602	8-729-900-63 8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-76	TRANSISTOR D TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	TA124ES SC2785- SC2785- SC2785- SA1175-	HFE HFE HFE HFE		
D507 8-719-970-89 D509 8-719-911-19 D510 8-719-109-71 D511 8-719-911-19 D512 8-719-911-19	DE>  DIODE ISSI19 DIODE RD13ES-B2 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE RD38ES-B2 DIODE RD38ES-B2 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ERC38-06 DIODE ERC38-06 DIODE RD-1C DIODE RD5.6ES-B1 DIODE V09G DIODE V09G DIODE V09G DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19 DIODE ISSI19		Q1603 Q1604 Q1605 Q1606 Q1620	8-729-119-76 8-729-119-76 8-729-119-78 8-729-119-78 8-729-119-76	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1175- SA1175- SC2785- SC2785- SA1175-	HFE HFE HFE HFE		
D513 8-719-911-19 D514 8-719-911-19	DIODE 188119			<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
D514 8-719-911-19 D515 8-719-911-19 D1401 8-719-911-19 D1402 8-719-911-19 D1403 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		R203 R204 R214 R215	1-249-425-11 1-249-441-11 1-249-429-11 1-249-437-11	CARBON CARBON CARBON CARBON	4.7K 100K 10K 47K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	Ŧ
D1405 8-719-110-88 D1406 8-719-911-19 D1407 8-719-110-88	DIODE RD39ES-B2 DIODE RD39ES-B2		R219 R221 R222 R223	1-249-426-11 1-249-409-11 1-249-436-11 1-249-434-11 1-249-409-11	CARBON CARBON CARBON CARBON	5.6K 220 39K 27K 220		1/4W 1/4W 1/4W 1/4W 1/4W	
D1409 8-719-110-88 D1607 8-719-911-19 D1608 8-719-911-19	DIODE 188119 DIODE 188119		R225 R229 R231 R232	1-249-417-11 1-216-488-11 1-249-409-91 1-215-906-11	CARBON METAL OXIDE CARBON METAL OXIDE	1K 18K 220 15	5% 5% 5% 5% 5%	1/4W 3W 1/4W 3W	F
<ic> IC201 8-749-920-58</ic>	IC SI-3090CA		R233	1-249-409-11 1-249-409-11	CARBON	220 220		1/4W 1/4W	
	IC UPC7805H IC UPC2405HF IC TA7812S IC SI-3090CA		R235 R236 R237 R238	1-249-409-11 1-249-409-11 1-249-409-11 1-249-409-11	CARBON CARBON CARBON CARBON	220 220 220 220 220	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
IC506 8-752-057-18 IC1401 8-759-246-70 IC1601 8-752-058-71	IC TA8216H		R239 R240 R241 R242 R243	1-249-409-11 1-215-906-11 1-249-401-11 1-215-906-11 1-217-294-00	CARBON METAL OXIDE CARBON METAL OXIDE WIREWOUND	220 15 47 15 4.7	5% 5% 5% 5% 10%	1/4W 3W 1/4W 3W 5W	F F
<003			R244	1-207-676-00	WIREWOUND	6.8	10%	5W	F
L201 1-408-429-00 L205 1-410-645-31 L206 1-408-416-00 L212 1-410-312-11	INDUCTOR 470UH INDUCTOR 100UH INDUCTOR 39UH INDUCTOR 0.22UH COLL, HORIZONTAL LINEARITY		R296 R501 R502 R503	1-249-417-11 1-247-895-00 1-249-377-11 1-249-377-11	CARBON CARBON CARBON CARBON	1K 470K 0.47 0.47	5% 5% 5%	1/4W 1/4W 1/4W 1/4W	म म
1201 IN 1 400 190 11	COLD, HORIZONIAE CINCALITY		R504	1-249-417-11	CARBON	1 K	5%	1/4W	

The components identified by shading and mark A are critical for safety.

Replace only with part number

specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION			•	REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R505 R506 R507 R508 R509	1-249-423-11 1-215-922-11 1-249-429-11 1-216-373-11 1-216-478-11	METAL OXIDE CARBON METAL OXIDE	3.3K 6.8K 10K 2.2 390	5% 5% 5% 5%	1/4W 3W 1/4W 2W 3W	म म म	R1520 R1601 R1602	1-215-410-00 1-249-429-11 1-249-423-11 1-249-417-11 1-249-423-11	METAL  CARBON  CARBON  CARBON  CARBON	360 10K 3.3K 1K 3.3K	1% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1/4W 1/4W 1/4W 1/4W	
R511 R512 R513 R514 R515	1-249-407-11 1-249-421-11 1-249-417-11 1-216-441-00 1-249-432-11	CARBON CARBON METAL OXIDE	150 2.2K 1K 27K 18K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1W 1/4W	F F	R1604 R1605 R1606 R1607	1-249-405-11 1-249-405-11 1-249-405-11	CARBON  CARBON  CARBON  CARBON  CARBON  CARBON	100 100 100 680 680	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R516 R517 R518 R519 R520	1-249-417-11 1-249-427-11 1-249-422-11 1-249-417-11 1-215-925-11	CARBON CARBON CARBON	1K 6.8K 2.7K 1K 22K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 3W	(z. (z. (z. (z.	R1609 R1610 R1611 R1612	1-249-415-11 1-249-405-11 1-249-405-11 1-249-405-11 1-249-423-11	CARBON  CARBON  CARBON  CARBON  CARBON  CARBON	100 100 100 3.3K	55 55555	1/4W 1/4W 1/4W 1/4W	
R521 R522 R523 R524 R525	1-215-925-11 1-249-421-11 1-249-434-11 1-249-434-11 1-215-922-11	CARBON CARBON	22K 2.2K 27K 27K 6.8K	5% 5% 5% 5%	3W 1/4W 1/4W 1/4W 3W	F	R1614 R1622 R1624 R1627	1-249-411-11 1-249-423-11 1-249-424-11 1-249-429-11	CARBON CARBON CARBON CARBON	330 3.3K 3.9K 10K	25 25 55 55 55 55 55 55 55 55 55 55 55 5	1/4W 1/4W 1/4W 1/4W	
R526 R528 R529 R530 R531		METAL OXIDE	1K 27 27 15K 15K	5% 5% 5% 5%	1/4W 2W 2W 1/4W 1/4W	F F	R1631 R1656 R1657	1-249-434-11 1-249-433-11 1-249-397-11 1-249-397-11 1-249-397-11	CARBON CARBON CARBON CARBON CARBON	27K 22K 22 22 22 22	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R532 R533 R534 R535 R536	1-249-385-11 1-249-405-11 1-249-405-11 1-249-405-11 1-207-687-00		2.2 100 100 100 150	5% 5% 5% 10%	1/4W 1/4W 1/4W 1/4W 5W	F	1501 A	<tra 1-437-078-11<="" 1-439-545-11="" td=""><td>NSFORMER&gt; TRANSFORMER, TRANSFORMER,</td><td>FERRIT HORIZO</td><td>e Ntal</td><td>DELVE</td><td></td></tra>	NSFORMER> TRANSFORMER, TRANSFORMER,	FERRIT HORIZO	e Ntal	DELVE	
R537 R550 R558 R559 R560	1-207-687-00 1-249-385-11 1-249-385-11 1-249-409-11 1-249-409-11	CARBON	150 2.2 2.2 220 220	10% 5% 5% 5%	5W 1/4W 1/4W 1/4W 1/4W	14 14	35101017.	<tun 1-693-102-21</tun 		4(1)	12 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15		
R563 R564 R565 R566 R567	1-249-429-11 1-249-429-11 1-249-427-11 1-249-427-11 1-249-427-11	CARBON CARBON	10K 10K 6.8K 6.8K 6.8K	5% 5% 5% 5%	1/40 1/40 1/40 1/40 1/40			************* *A-1195-066-A	P1 BOARD, COI	PLETE	****	*****	******
R568 R569 R570 R571 R572	1-249-427-11 1-249-426-11 1-249-441-11 1-249-429-11 1-249-429-11	CARBON CARBON	6.8K 5.6K 100K 10K 10K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3002 C3003 C3004	1-124-589-11 1-164-346-11 1-164-232-11 1-163-119-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 120PF		20% 10% 5% 5%	16V 16V 50V
R574 R579 R1401 R1402 R1403	1-249-417-11 1-249-417-11 1-215-445-00 1-215-445-00 1-215-445-00	CARBON CARBON METAL METAL METAL	1 K 1 K 1 O K 1 O K 1 O K	5% 5% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		C3005 C3006 C3007 C3008 C3009 C3010	1-163-235-11 1-164-232-11 1-164-005-11 1-164-004-11 1-124-925-11 1-163-145-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 0.47MF 0.1MF 2.2MF		10% 10% 20% 5%	50V 50V 25V 25V 50V 50V
R1404 R1405 R1406	1-215-445-00 1-249-385-11 1-249-385-11	METAL CARBON CARBON	10K 2.2 2.2 22K	1% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3011 C3012 C3013 C3014	1-163-018-00 1-164-336-11 1-164-222-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0056 0.33MF 0.22MF 0.1MF	MF	10% 10%	50V 25V 25V 25V
R1409	1-249-433-11 1-249-433-11	CARBON CARBON	22K	J/6			1 411114	1-16/1-747-11	I KRYWII LUID	II HILES	•	ተቦኝ	รกข
R1409 R1410 R1411 R1427 R1428 R1431			22K 47K 220 220 100 4.7K	5% 5% 5% 5%	I/4W 1W 1W 1/4W 1/4W	<b>1</b>	C3015 C3016 C3017 C3018 C3019 C3020	1-164-232-11 1-163-107-00 1-130-495-00 1-163-115-00 1-164-232-11 1-163-105-00	CERAMIC CHIP CERAMIC CHIP MYLAR CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	39PF 0.1MF 82PF 0.01MF		5% 5% 5% 10%	50V 50V 50V 50V 50V 50V

### P1

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTIÓN			1	REMARK
C3024 C3025 C3026 C3027 C3028	1-163-018-00 1-164-343-11 1-126-163-11 1-163-275-11 1-124-589-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP ELECT	0.0056MF 0.056MF 4.7MF 0.001MF 47MF	10% 10% 20% 5%		I C3004 I C3005 I C3006 I C3007	8-759-088-90 8-759-088-91 8-759-112-06 8-759-046-27	IC SDA9187X IC SDA9188X IC UPC78N05H IC SDA9086-3				
C3029 C3030 C3031 C3032	1-163-133-00 1-163-037-11 1-126-177-11 1-164-004-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	470PF 0.022MF 100MF 0.1MF	5% 10% 20% 10%	50V 25V 6.3V 25V 25V	1	8-759-112-06 <coi< td=""><td>L&gt;</td><td>221111</td><td></td><td></td><td></td></coi<>	L>	221111			
C3034 C3035 C3036 C3037	1-164-336-11 1-163-117-00 1-164-004-11 1-124-589-11 1-136-287-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.33MF 100PF 0.1MF 47MF	5% 10% 20%	25V 50V 25V 16V	L3002 L3003 L3004 L3005	1-410-476-11 1-408-424-00 1-408-424-00 1-410-470-11 1-410-472-41	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	180UH 180UH 10UH 15UH			
C3038 C3039 C3040 C3042	1-136-287-11 1-164-004-11 1-164-232-11 1-164-346-11 1-124-465-00 1-126-301-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0047MF 0.1MF 0.01MF 1MF	5% 10% 10%	25V 50V 16V	L3006 L3007 L3008 L3009 L3010	1-412-788-41 1-410-472-41 1-410-472-41 1-410-472-41 1-410-466-41	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	10UH 15UH 15UH 15UH 4.7UH			
C3043 C3044 C3045 C3046	1-124-465-00 1-126-301-11 1-124-589-11 1-126-301-11 1-126-301-11 1-164-161-11	ELECT ELECT ELECT ELECT	0.47MF 1MF 47MF 1MF	20% 20% 20% 20%	50V 50V 16V 50V	L3011 L3012 L3013 L3014	1-410-470-11 1-410-676-31 1-412-911-11 1-412-911-11	INDUCTOR INDUCTOR INDUCTOR, FEI INDUCTOR, FEI	10UH 150UH RRITE BE RRITE BE	AD AD		
C3051	1-164-161-11	CERAMIC CHIP	U.0822MF	10%	50V 50V 50V	1 13013	1-412-911-11 1-412-799-41	INDUCTOR, PER	tkile be	AD		
C3052 C3053 C3054 C3055	1-126-177-11 1-164-004-11 1-126-177-11 1-163-133-00 1-124-589-11	ELECT CERAMIC CHIP ELECT CERAMIC CHIP	100MF 0.1MF 100MF 470PF	20% 10% 20% 5%	6.3V 25V 6.3V 50V 16V	03003		NSISTOR>	SA1162-G			
C3058 C3059	1-124-589-11 1-163-009-11 1-164-222-11	CERAMIC CHIP	0.001MF 0.22MF	10%	50V 25V	Q3004 Q3006 Q3007 Q3008	8-729-216-22 8-729-422-27 8-729-422-27 8-729-216-22 8-729-422-27	TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29	50601A-Q 50601A-Q 5A1162-G 5D601A-Q			
C3064 C3065	1-163-009-11 1-164-222-11 1-124-589-11 1-163-123-00 1-124-589-11	CERAMIC CHIP ELECT	47MF 180PF 47MF	20% 5% 20%	16V 50V 16V	Q3009 Q3010 Q3011	8-729-216-22 8-729-422-27 8-729-216-22 8-729-422-27	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SA1162-G SD601A-Q SA1162-G			
C3066 C3067 C3069 C3070	1-164-004-11 1-124-589-11 1-164-232-11 1-126-177-11 1-124-589-11	CERAMIC CHIP ELECT CERAMIC CHIP ELECT	0.1MF 47MF 0.01MF 100MF	10% 20% 10% 20%	25V 16V 50V 6.3V 16V	Q3013	8-729-422-27 8-729-422-27 8-729-422-27 8-729-216-22	TRANSISTOR 2:	SD601A-Q SD601A-Q			
C3072 C3073	1-124-589-11 1-124-589-11 1-124-589-11 1-163-121-00 1-164-004-11	ELECT ELECT	47MF 47MF	20% 20% 20%	16V 16V	95100		ISTOR>	5K1102−G			
C3077	1-164-005-11	CERAMIC CHIP	U-4(Mr		23¥	R3002	1-216-295-00 1-216-085-00 1-216-089-00	METAL GLAZE	0 33K 47K	5% 5% 5% 5%	1/10W 1/10W	
C3100	1-163-095-00 1-164-004-11 1-162-926-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	5% 10% 5%	50V 25V 50V	R3003 R3004	1-216-067-00 1-216-091-00	METAL GLAZE			1/10W 1/10W	
CN151	<con 1-573-965-21</con 	NECTOR> PIN, CONNECTO	OR (PC BOARD	) 50P		R3005 R3006 R3007 R3008 R3009	1-216-689-11 1-216-097-00 1-216-079-00 1-216-073-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39K 100K 18K 10K 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<dio 8-719-158-15</dio 	DIODE RD5.6S	-В			R3011 R3012 R3013	1-216-049-00 1-216-073-00 1-216-053-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 10K 1.5K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	8-719-404-46 8-719-404-46	DIODE MAIIO DIODE MAIIO				R3014	1-216-065-00 1-216-049-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE			1/10W 1/10W 1/10W	
	<1C> 8-759-046-25	IC TDA3769				R3018 R3019 R3020	1-216-083-00 1-216-097-00 1-216-077-00 1-216-099-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 15K 120K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	8-759-009-46 8-759-513-48	IC MC14528BF IC TDA2595/V	9			R3021	1-216-075-00	METAL GLAZE	12K	5%	1/10W	



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	_	REMARK
R3023 1-216-065-00 R3025 1-216-015-00 R3026 1-216-041-00 R3027 1-216-061-00 R3028 1-216-027-00	METAL GLAZE 39 METAL GLAZE 470 METAL GLAZE 3.3K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		RV3002	1-241-630-11 1-238-019-11	IABLE RESISTOR>  RES, ADJ, CARBON 10K RES, ADJ, CARBON 47K RES, ADJ, CARBON 10K		
R3030 1-216-073-00 R3031 1-216-047-00 R3032 1-216-041-00 R3033 1-216-295-00 R3034 1-216-041-00	METAL GLAZE 820 METAL GLAZE 470 METAL GLAZE 0	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W			<cry< td=""><td>STAL&gt; OSCILLATOR, CRYSTAL</td><td></td><td></td></cry<>	STAL> OSCILLATOR, CRYSTAL		
R3035 1-216-045-00 R3036 1-216-045-00 R3037 1-216-083-00 R3038 1-216-049-00 R3039 1-216-073-00	METAL GLAZE 680 METAL GLAZE 27K METAL GLAZE 1K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W				M BOARD, COMPLETE	******	*****
R3040 1-216-065-00 R3041 1-216-073-00 R3042 1-216-057-00 R3043 1-216-099-00 R3044 1-216-089-00	METAL GLAZE 4.7K METAL GLAZE 10K METAL GLAZE 2.2K METAL GLAZE 120K METAL GLAZE 47K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W			1-124-261-00 1-163-125-00 1-136-161-00	CERAMIC CHIP 220PF FILM 0.047MF	5%	50 V 50 V 50 V
R3045 1-216-295-00 R3050 1-216-033-00 R3052 1-216-033-00 R3053 1-216-037-00 R3055 1-216-063-00	METAL GLAZE 220 METAL GLAZE 220 METAL GLAZE 330	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		C004 C005 C014 C017 C018	1-163-125-00 1-124-910-11 1-124-589-11 1-163-141-00	ELECT 1MF CERAMIC CHIP 220PF  BLECT 47MF BLECT 47MF CERAMIC CHIP 0.001MF		50V 50V 50V 50V
R3056 1-216-059-00 R3057 1-216-081-00 R3058 1-216-049-00 R3059 1-216-079-00 R3060 1-216-065-00	METAL GLAZE 22K METAL GLAZE 1K METAL GLAZE 18K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		C030	1-164-695-11 1-163-241-11 1-163-239-11 1-163-115-00 1-163-115-00	CERAMIC CHIP 0.0022M CERAMIC CHIP 39PF CERAMIC CHIP 33PF CERAMIC CHIP 82PF CERAMIC CHIP 82PF	55 5% 55% 55% 55%	50V 50V 50V 50V
R3061 1-216-049-00 R3062 1-216-049-00 R3063 1-216-025-00 R3064 1-216-295-00 R3065 1-216-073-00	METAL GLAZE 1K METAL GLAZE 100 METAL GLAZE 0	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		C036 C041 C042	1-163-125-00 1-163-125-00 1-163-117-00 1-163-117-00 1-163-117-00	CERAMIC CHIP 220PF CERAMIC CHIP 220PF CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 100PF	5% 5% 5% 5% 5%	50V 50V 50V 50V
R3066 1-216-053-00 R3067 1-216-295-00 R3069 1-216-689-11 R3071 1-216-049-00 R3073 1-216-049-00	METAL GLAZE O METAL GLAZE 39K METAL GLAZE 1K	5% 1/10W		C045 C047 C048 C049 C055	1-163-125-00 1-124-261-00 1-124-261-00 1-124-261-00 1-163-809-11	CERAMIC CHIP 220PF BLBCT 10MF BLECT 10MF BLECT 10MF CERAMIC CHIP 0.047MF CERAMIC CHIP 150PF	20% 20% 20% 10%	50V 50V 50V 50V 25V
R3074 1-216-295-00 R3075 1-216-049-00 R3076 1-216-043-00 R3077 1-216-037-00 R3078 1-216-044-00	METAL GLAZE 1K METAL GLAZE 560 METAL GLAZE 330	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		C064 C065	1-163-121-00 1-124-257-00 <d10< td=""><td>BLECT 2.2MF DE&gt;</td><td>5% 20%</td><td>50V 50V</td></d10<>	BLECT 2.2MF DE>	5% 20%	50V 50V
R3079 1-216-040-00 R3082 1-216-029-00 R3084 1-216-049-00 R3085 1-216-119-00 R3086 1-216-065-00	METAL GLAZE 150 METAL GLAZE 1K METAL GLAZE 820K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		D001 D002 D009 D010 D011	8-719-404-46 8-719-404-46 8-719-404-46 8-713-300-57 8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE IT33 DIODE MAIIO		
R3087 1-216-081-00 R3088 1-216-089-00 R3089 1-216-033-00 R3090 1-216-089-00 R3091 1-216-053-00	METAL GLAZE 47K METAL GLAZE 220 METAL GLAZE 47K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		D012 D014 D015	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE MAIIO		
R3092 1-216-053-00 R3098 1-216-296-00 R3099 1-216-296-00 R3100 1-216-296-00 R3101 1-216-051-00	METAL GLAZE O METAL GLAZE O METAL GLAZE O	5% 1/8W 5% 1/8W 5% 1/8W			8-759-169-06 8-759-403-44 <coi< td=""><td></td><td></td><td></td></coi<>			
R3102 1-216-047-00 R3103 1-216-057-00 R3104 1-216-049-00	METAL GLAZE 2.2K	5% 1/10W 5% 1/10W 5% 1/10W		L001 L002	1-408-409-00 1-410-476-11			



REF.NO	. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
M001 M39 M45	1-573-065-21	NECTOR>	RUNBU)	500		R063 R064	1-216-033-00 1-216-053-00 1-216-033-00		220 1.5K 220 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
1175	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R067 R068 R069</td><td>1-216-033-00 1-216-033-00 1-216-049-00</td><td>METAL GLAZE METAL GLAZE</td><td>220 220 1K</td><td>5%% 5%% 5%% 5%%</td><td>1/10W 1/10W 1/10W</td><td></td></tra<>	NSISTOR>				R067 R068 R069	1-216-033-00 1-216-033-00 1-216-049-00	METAL GLAZE METAL GLAZE	220 220 1K	5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W	
Q001 Q009 Q010	8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR 2SA1162 TRANSISTOR 2SD601A TRANSISTOR 2SD601A	-G -Q -0			R070 R071	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE	220 220 220		1/10W 1/10W 1/10W	
Q011 Q012	8-729-422-27 8-729-422-27	PLUG, CONNECTOR 6P PLUG, CONNECTOR 8P PLUG, CONNECTOR 8P NSISTOR> TRANSISTOR 2SA1162 TRANSISTOR 2SD601A TRANSISTOR 2SD601A TRANSISTOR 2SD601A TRANSISTOR 2SD601A TRANSISTOR 2SD601A ISTOR> METAL GLAZE 680 METAL GLAZE 100K	-Q -Q			R073 R074 R075	1-216-057-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 2.2K 220 220 47K	5% 5% 5%	1/10W 1/10W 1/10W	
Q013 Q014	8-729-422-27	TRANSISTOR 2SD601A	-Q			R077	1-216-089-00 1-216-057-00 1-216-033-00				1/10W 1/10W 1/10W	
R001	<res< td=""><td>ISTOR&gt; METAL GLAZE 680</td><td>5%</td><td>1/10W</td><td></td><td>R079 R080 R081</td><td>1-216-025-00 1-216-061-00 1-216-033-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>2.2K 220 100 3.3K 220</td><td>5% 5% 5%</td><td>1/10W 1/10W 1/10W</td><td></td></res<>	ISTOR> METAL GLAZE 680	5%	1/10W		R079 R080 R081	1-216-025-00 1-216-061-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 220 100 3.3K 220	5% 5% 5%	1/10W 1/10W 1/10W	
R002 R003 R004 R005	1-216-097-00 1-216-121-00 1-216-073-00 1-216-073-00	METAL GLAZE 680 METAL GLAZE 100K METAL GLAZE 1M METAL GLAZE 10K METAL GLAZE 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R083 R084	1-216-033-00 1-216-033-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 220 100K 220 220	5% 5%	1/10W 1/10W 1/10W	
R006 R007	1-216-065-00 1-216-027-00	METAL GLAZE 4.7K		1/10W 1/10W		R085 R086	1-216-033-00 1-216-033-00				1/10W 1/10W	
R008 R009 R011	1-216-041-00 1-216-027-00 1-216-033-00	METAL GLAZE 220	5% 5% 5% 5%	1/10W 1/10W 1/10W		R089	1-216-033-00 1-216-033-00 1-216-089-00 1-216-033-00	METAL GLAZE	220 220 47K 220 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R012 R013 R014	1-216-033-00 1-216-067-00 1-216-057-00	METAL GLAZE 5.6K	5% 5%	1/10W 1/10W 1/10W		R091 R092	1-216-065-00	NETAL GLAZE			1/10W 1/10W	
R015 R016 R017	1-216-089-00 1-216-067-00 1-216-067-00			1/10W 1/10W 1/10W		R093 R094 R095 R096	1-216-065-00 1-216-033-00 1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 4.7K 220 10K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R018 R019 R033	1-216-065-00 1-216-073-00 1-216-073-00	METAL GLAZE 4.7K METAL GLAZE 10K METAL GLAZE 10K	5% 5%	1/10W 1/10W 1/10W		R097	1-216-065-00 1-216-065-00				1/10W 1/10W	
R034 R035 R036	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE 220	5%	1/10W 1/10W 1/10W		R100 R101	1-216-089-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 47K 100 100	5% 5%	1/10W 1/10W 1/10W	
R037 R038 R039	1-216-073-00 1-216-033-00	METAL GLAZE TOK	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R103	1-216-089-00 1-216-033-00 1-216-033-00	METAL GLAZE	47K 220 220	5% 5% 5%	1/10W 1/10W 1/10W	
R040 R041 R042	1-216-089-00 1-216-057-00 1-216-065-00	METAL GLAZE 47K METAL GLAZE 2.2K METAL GLAZE 4.7K	5%	1/10W 1/10W 1/10W			<cry< td=""><td>STAL&gt;</td><td></td><td></td><td></td><td></td></cry<>	STAL>				
R043 R044	1-216-033-00 1-216-033-00	METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W		X001	1-579-743-11 *******	VIBRATOR, CRY		*****	*****	*****
R045 R046 R047 R048	1-216-025-00 1-216-065-00 1-216-065-00 1-216-033-00	METAL GLAZE 100 METAL GLAZE 4.7K METAL GLAZE 4.7K METAL GLAZE 220		1/10W 1/10W 1/10W 1/10W			*A-1346-137-A	E2 BOARD, CON				
R049 R050	1-216-065-00	METAL GLAZE 4.7K	5% 5%	1/10W 1/10W		5 6 8 8	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td></cap<>	ACITOR>				
R051 R052 R053 R054		METAL GLAZE 220 METAL GLAZE 4.7K METAL GLAZE 4.7K METAL GLAZE 10K	5% 5%	1/10W 1/10W 1/10W 1/10W		C2303 C2310 C2314	1-163-009-11 1-164-232-11 1-163-105-00 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 33PF 0.01MF		10% 10% 5% 10%	50V 50V 50V 50V
R055 R056 R057	1-216-073-00 1-216-065-00 1-216-065-00	METAL GLAZE 10K METAL GLAZE 4.7K METAL GLAZE 4.7K	5%	1/10W 1/10W 1/10W		C2316 C2317	1-126-157-11 1-126-157-11 1-126-157-11	ELECT ELECT ELECT	10MF 10MF 10MF		20% 20% 20%	16V 16V 16V
R058 R059	1-216-065-00 1-216-073-00	METAL GLAZE 4.7K METAL GLAZE 10K	5% 5%	1/10W 1/10W		C2318 C2320	1-164-232-11 1-124-589-11 1-163-017-00	CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 47MF		10% 20% 10%	50V 16V 50V
R060	1-216-065-00	METAL GLAZE 4.78	5%	1/10W		i						

**E2** 

REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C2322 1-124-234-00 C2323 1-124-234-00 C2324 1-124-234-00	ELECT 22MF ELECT 22MF ELECT 22MF CERAMIC CHIP 0.01MF ELECT 47MF			Q2305 Q2306	8-729-903-10 8-729-403-27	TRANSISTOR FMW TRANSISTOR XN4	401		
C2325 1-164-232-11 C2326 1-124-589-11	CERAMIC CHIP 0.01MF ELECT 47MF	10% 20%		. 02308	8-729-403-27	TRANSISTOR XN4 TRANSISTOR XN4 TRANSISTOR FMW TRANSISTOR XN4	1401		
C2327 1-164-505-11 C2328 1-164-232-11 C2329 1-164-232-11	CERAMIC CHIP 2.2MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 22MF	10% 10%	16V 50V 50V 50V	Q2311	8-729-903-10	TRANSISTOR XN4 TRANSISTOR FMW TRANSISTOR XN4	)1		
			16V	Q2313 Q2314	8-729-903-10 8-729-403-27	TRANSISTOR ANA TRANSISTOR XN4 TRANSISTOR FMW	)1  401		
C2334 1-164-232-11 C2335 1-164-232-11 C2336 1-126-163-11 C2337 1-164-232-11	BLECT 22MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF BLECT 4.7MF CERAMIC CHIP 0.01MF	10% 10% 20% 10%	50V 50V 16V 50V	Q2317	8-729-216-22	TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SD	11162-G		
C2338 1-163-038-00	CERAMIC CHIP 0.1MF		25V	1 02321	8-729-422-27	TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD	0601A-U		
C2345 1-164-505-11 C2346 1-164-232-11	CERAMIC CHIP 2.2MF CERAMIC CHIP 0.01MF	10%	6.3V 16V 50V	Q2324 Q2326	8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR 2SA TRANSISTOR 2SD TRANSISTOR 2SD	11162-G 0601A-Q		
C2347 1-163-367-11 C2349 1-164-505-11 C2350 1-164-232-11	CERAMIC CHIP 39PF CERAMIC CHIP 2.2MF CERAMIC CHIP 0.01MF CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF	5% 10%	50V 16V 50V	Q2328 Q2329	8-729-925-79 8-729-925-79	TRANSISTOR IMX	(3 (3		
C2351 1-164-505-11 C2352 1-164-505-11	CERAMIC CHIP 2.2MF	409	16V 16V	1 02336	8-729-925-79	TRANSISTOR FMW TRANSISTOR IMX TRANSISTOR 1MX TRANSISTOR 2SD	(3		
C2353 1-164-232-11 C2354 1-164-232-11 C2357 1-126-301-11 C2360 1-163-109-00	CERAMIC CHIP 0.01MF CBRAMIC CHIP 0.01MF ELECT IMF CBRAMIC CHIP 47PF	10% 10% 20%	50V 50V 50V	Q2340	8-729-422-27	TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD	0601A-Q		
<dic< td=""><td></td><td><i>Jn</i>j .</td><td>301</td><td>  QUITI</td><td></td><td>ISTOR&gt;</td><td>OUIN #</td><td></td><td></td></dic<>		<i>Jn</i> j .	301	QUITI		ISTOR>	OUIN #		
D2306 8-719-404-46 D2307 8-719-946-98	DIODE MAILO			R2302			1K 5%	1/10W 1/10W	
D2308 8-719-946-98 D2309 8-719-404-46 D2312 8-719-404-46	DIODE FMN1			R2304 R2305 R2306	1-216-049-00 1-216-033-00 1-216-045-00	NETAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 220 5% 680 5%	1/10W 1/10W 1/10W 1/10W	
D2313 8-719-404-46 D2314 8-713-300-57 D2317 8-719-404-46	DIODE 1T33			R2307 R2308 R2309 R2310	1-216-045-00 1-216-045-00 1-216-041-00 1-216-055-00 1-216-025-00	NETAL GLAZE METAL GLAZE METAL GLAZE	680 5% 680 5% 470 5% 1.8K 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	INECIUN			R2312	1-216-043-00		560 5% 1.8K 5%	1/10W	
E2-002 1-573-965-21 E2-25 *1-564-521-31 E2-26 *1-564-522-11 E2-46 *1-564-518-11		)) 50P		R2313 R2314 R2315 R2317	1-216-055-00 1-216-061-00 1-216-081-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 5% 3.3K 5% 22K 5% 470 5%	1/10W 1/10W 1/10W 1/10W	
<10	<b>&gt;</b>				1-216-055-00 1-216-079-00	METAL GLAZE METAL GLAZE	1.8K 5% 18K 5%	1/10W 1/10W	
IC2301 8-759-066-52 IC2303 8-759-925-75 IC2304 8-752-037-15	IC PCA8510T/012-T IC SN74HCO5ANS IC CXA1387S			R2320 R2321 R2322	1-216-061-00 1-216-063-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 5% 3.9K 5% 1K 5%	1/10W 1/10W 1/10W	
1C2304 8-752-058-68				R2324	1-216-067-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 5% 1K 5% 1K 5%	1/10W 1/10W 1/10W	
<00	IL>			R2326	1-216-061-00 1-216-063-00	METAL GLAZE METAL GLAZE	3.3K 5% 3.9K 5%	1/10W 1/10W	
L2304 1-408-414-00	INDUCTOR 27UH			R2329	1-216-025-00 1-216-025-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 100 5% 3.3K 5%	1/10W 1/10W 1/10W	
	ANSISTOR>			R2331 R2332	1-216-063-00	METAL GLAZE METAL GLAZE	3.9K 5% 100 5%	1/10W 1/10W 1/10W	
Q2301 8-729-903-10 Q2303 8-729-403-27 Q2304 8-729-925-79	TRANSISTOR XN4401			R2333 R2334	1-216-067-00 1-216-295-00	METAL GLAZE METAL GLAZE	5.6K 5% 0 5%	1/10W 1/10W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R2335 R2336 R2337 R2338 R2340	1-216-295-00 1-216-295-00 1-216-033-00 1-216-081-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 220 22K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R3310 R3311 R3312 R3313	1-216-001-00 1-216-081-00 1-216-049-00 1-216-083-00	METAL GLAZE  METAL GLAZE	10 22K 1K 27K 39K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2342 R2343 R2344	1-216-041-00 1-216-049-00 1-216-049-00 1-216-033-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1K 1K 220 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R3315 R3316 R3318 R3319 R3320	1-216-089-00 1-216-071-00 1-216-095-00 1-216-095-00 1-216-017-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 8.2K 82K 82K 47 6.8K		1/10W 1/10W 1/10W 1/10W 1/10W	
R2347 R2348 R2349 R2350		METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	1K 27K 1.5K 100 100K	5% 5% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R3321 R3323 R3324 R3325 R3328	1-216-069-00 1-216-101-00 1-216-049-00 1-216-025-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 150K 1K 100 10 220		1/10W 1/10W 1/10W 1/10W 1/10W	
R2353 R2354 R2355		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 100K 100K 3.3K 150	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/8W		R3330 R3331 R3332 R3333 R3334	1-216-033-00 1-216-033-00 1-216-081-00 1-216-657-11 1-216-661-11	METAL GLAZE	220 22K 1.8K 2.7K 100	5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W	
R2357 R2359 R2360 R2361	1-216-677-11 1-216-670-11 1-216-053-00 1-216-053-00 1-216-053-00 1-216-053-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.2K 1.5K 1.5K 1.5K	0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R3336 R3337 R3339 R3340	1-216-683-11 1-216-685-11 1-216-081-00 1-216-049-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP	22K 27K 22K 1K 12K	0.50% 0.50% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W	
R2363 R2364 R2365 R2366	1-216-041-00 1-216-053-00 1-216-053-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1.5K 1.5K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R3342 R3343 R3344 R3347 R3348	1-216-670-11 1-216-097-00 1-216-097-00 1-216-687-11 1-216-681-11	METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP	6.2K 100K 100K 33K 18K	0.50% 5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W	
R2371 R2374 R2375	1-216-081-00	METAL GLAZE	22K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		R3349 R3350 R3351 R3352 R3353	1-216-073-00 1-216-065-00 1-216-065-00 1-216-073-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 4.7K 4.7K 10K 2.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2378 R2379 R2380 R2381	1-216-043-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W 1/10W 1/10W		R3354 R3356 R3357 R3358 R3359	1-216-059-00 1-216-655-11 1-216-654-11 1-216-659-11 1-216-653-11	METAL GLAZE METAL CHIP METAL CHIP METAL CHIP METAL CHIP			1/10W 1/10W 1/10W 1/10W 1/10W	
R2382	1-216-073-00 1-216-081-00 1-216-075-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 10K 22K 12K 1K	5% 5%	1/10W 1/10W 1/10W 1/10W		R3360 R3361 R3362 R3364 R3365	1-216-077-00 1-216-049-00 1-216-097-00 1-216-295-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 1K 100K 0 100K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2388 R2389 R2390 R2392 R2393	1-216-017-00 1-216-206-00 1-216-043-00 1-216-206-00 1-216-017-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47 2.2K 560 2.2K	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/8W		R3367 R3368 R3369 R3370 R3371	1-216-077-00 1-216-083-00 1-216-001-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 27K 10 10	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2394 R2395 R2396 R2397	1-216-049-00 1-216-001-00 1-216-206-00 1-216-043-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 10 2.2K 560	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W		R3373 R3374 R3375 R3376 R3377	1-216-673-11 1-216-059-00 1-216-658-11 1-216-647-11 1-216-647-11	METAL CHIP METAL GLAZE METAL CHIP METAL CHIP METAL CHIP	8.2K 2.7K 2K 680 680	5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
R3301 R3302 R3303 R3304	1-216-049-00 1-216-001-00 1-216-069-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 10 6.8K 56K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R3378. R3379 R3380 R3381 R3382	1-216-659-11 1-216-655-11 1-216-661-11 1-216-025-00 1-216-295-00	METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE	2.2K 1.5K 2.7K 100	0.50% 0.50% 0.50% 5%	1/10W	
R3307 R3308 R3309	1-216-085-00 1-216-043-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	33K 560 1K	5% 5% 5%	1/10W 1/10W 1/10W		R3392 R3401	1-216-089-00 1-216-057-00	NETAL GLAZE NETAL GLAZE	47K 2.2K	5% 5%	1/10W 1/10W	

<b>E2</b>	E1

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	<u> </u>	REMARK
R7312 R7313 R7314	1-216-049-00 1-216-047-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE STAL>				C361 C362 C363	1-126-301-11 1-164-232-11 1-164-232-11	ELECT 1MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 1MF CERAMIC CHIP 0.056MF	20% 10% 10% 20% 10%	50V 50V 50V 50V 25V
X2301	1-577-071-11	VIBRATOR, CE	RAMIC			C366 C367	1-124-257-00	ELECT 2.2MF	20% 20%	50V
	************ *A-1346-138-A	•	PLETE	*****	******	C368 C369 C370	1-124-234-00 1-163-001-11 1-164-232-11	ELECT 2.2MF ELECT 10MF ELECT 22MF CERAMIC CHIP 220PF CERAMIC CHIP 0.01MF	20% 10% 10%	16V 16V 50V 50V
	<cad< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>C371 C372 C373</td><td>1-124-126-00 1-124-589-11</td><td>ELECT 47MF ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 100PF CERAMIC CHIP 0.01MF</td><td>20% 20%</td><td>16V 16V</td></cad<>	ACITOR>				C371 C372 C373	1-124-126-00 1-124-589-11	ELECT 47MF ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 100PF CERAMIC CHIP 0.01MF	20% 20%	16V 16V
C301			0.0012MF	10%	50 <b>V</b>	C378 C379	1-164-232-11 1-163-117-00 1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10% 5% 10%	50V 50V 50V
C303 C304 C305 C306	1-163-010-11 1-126-157-11 1-164-232-11 1-163-251-11 1-163-117-00	ELECT CERAMIC CHIP CERAMIC CHIP	10MF 0.01MF 100PF 100PF	20% 10% 5% 5%	16¥ 50¥ 50¥ 50¥			CERAMIC CHIP 680PF CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 12PF		50V 50V 25V 25V
C309 C310	1-164-505-11	CERAMIC CHIP CERAMIC CHIP	2.2MF 47PF	5%	16V 50V	C383 C384	1-164-004-11 1-163-095-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 12PF	10% 5%	25V 50V
C314 C315	1-164-505-11 1-163-109-00 1-124-915-11 1-164-505-11 1-126-157-11	ELECT CERAMIC CHIP	10MF 2.2MF	20%	16V 16V		<010	DE>		
C320 C321 C322	1-126-157-11 1-124-465-00 1-163-125-00 1-163-003-11 1-163-099-00 1-124-234-00	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.47MF 220PF 330PF 18PF	20% 5% 10% 5%	50V 50V 50V 50V	D302 D303 D304	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO		
C324			22MF	20%	16 <b>V</b>	D306	8-719-158-15	DIODE RD5.6S-B		
C325 C326 C327 C328 C329	1-104-563-11 1-104-563-11 1-104-563-11 1-126-157-11 1-126-157-11	FILM CHIP	0.1MF 0.1MF 10MF	5% 5% 5% 20% 20%	16V 16V 16V 16V 16V		8-719-404-46 8-719-158-15 8-719-404-46 8-719-404-46	DIODE MAI10 DIODE RD5.6S-B DIODE MAI10 DIODE MAI10		
C330 C331 C332 C333 C334	1-126-157-11 1-126-301-11 1-124-584-00 1-163-037-11 1-137-491-11		10MF 1MF 100MF 0.022MF	20% 20% 20% 10% 5%	16V 50V 10V 25V 25V	D315 D316 D317	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE MAIIO		
C335 C336 C337 C338 C339	1-136-169-00 1-126-301-11 1-126-301-11 1-124-584-00 1-124-791-11	FILM ELECT ELECT ELECT				D320	8-719-404-46 8-719-404-46 8-719-400-94	DIODE MAILO		
C340	1-163-009-11	CERAMIC CHIP		10%	50V	DL302	1-415-817-11			
C341	I-126-157-11 1-124-465-00 1-124-589-11 1-164-232-11	ELECT ELECT ELECT CERAMIC CHIP	10MF 0.47MF 47MF 0.01MF	20% 20% 20% 10%	16V 50V 16V 50V			NECTOR>		
C345 C346 C347 C348 C349	1-124-767-00 1-164-232-11 1-136-169-00 1-163-117-00 1-126-301-11	ELECT CERAMIC CHIP FILM CERAMIC CHIP ELECT	0.22MF	20% 10% 5% 5% 20%	50V 50V 50V 50V 50V	E1-24 E1-25	*1-564-523-11 *1-564-521-31 *1-564-522-11	PIN, CONNECTOR (PC BOAR PLUG, CONNECTOR 8P PLUG, CONNECTOR 6P PLUG, CONNECTOR 7P	D) 50P	
C350 C351 C352 C353 C354	1-126-301-11 1-163-002-11 1-164-489-11 1-126-163-11 1-136-169-00	ELECT CERAMIC CHIP CERAMIC CHIP BLECT FILM		20% 10% 10% 20% 5%	50V 50V 16V 50V 50V	1C302	<1C> 8-752-058-68 8-752-057-68 8-759-106-02	IC CXA1315M IC CXA1464AS		
C355 C356	1-124-465-00 1-163-017-00	ELECT CERAMIC CHIP	0.47MF 0.0047MF	20% 10%	50V 50V		<c01< td=""><td>L&gt;</td><td></td><td></td></c01<>	L>		
C357 C358 C360	1-163-117-00 1-124-767-00 1-137-491-11	CERAMIC CHIP ELECT	100PF 2.2MF 0.1MF	5% 20% 5%	50V 50V 25V	L301 L307 L308	1-410-064-11 1-410-944-31 1-410-946-31	INDUCTOR 2.7MMH INDUCTOR CHIP 15UH INDUCTOR CHIP 22UH		



	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R343 R344 R345 R346</td><td>1-216-077-00 1-216-081-00 1-216-292-11 1-216-081-00</td><td>NETAL GLAZE NETAL GLAZE NETAL GLAZE NETAL GLAZE</td><td>15K 22K 8.2M 22K</td><td>5% 5% 5%</td><td>1/10W 1/10W 1/8W 1/10W</td><td></td></tra<>	NSISTOR>				R343 R344 R345 R346	1-216-077-00 1-216-081-00 1-216-292-11 1-216-081-00	NETAL GLAZE NETAL GLAZE NETAL GLAZE NETAL GLAZE	15K 22K 8.2M 22K	5% 5% 5%	1/10W 1/10W 1/8W 1/10W	
Q301 Q302 Q303 Q304 Q305	8-729-925-79 8-729-925-79 8-729-422-27 8-729-907-46 8-729-925-79	TRANSISTOR IMX TRANSISTOR IMX TRANSISTOR 2SD TRANSISTOR IMX TRANSISTOR IMX	3 3 601A-Q 1 3			R347 R348 R349 R350 R351	1-216-081-00 1-216-049-00 1-216-295-00 1-216-089-00 1-216-674-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 1K 0 47K	5% 5%	1/10W 1/10W 1/10W	
Q306 Q307 Q309 Q310 Q311	8-729-422-27 8-729-903-10 8-729-422-27 8-729-422-27 8-729-403-27	TRANSISTOR 2SDO TRANSISTOR FMW TRANSISTOR 2SDO TRANSISTOR 2SDO TRANSISTOR XN4	601A-Q 1 601A-Q 601A-Q 401			R352 R353 R354 R355 R356	1-216-011-00 1-216-001-00 1-216-049-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE	27 10 1K 10	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q312 Q314 Q315 Q316 Q317	8-729-422-27 8-729-403-27 8-729-422-27 8-729-422-27 8-729-216-22	NSISTOR>  TRANSISTOR IMX: TRANSISTOR IMX: TRANSISTOR 2SD: TRANSIST 2D: TRANSIST 2D: TRANSIST 2D: TRANSIST 2D: TRANSIST 2D: TRANSIST 2D: TRANSI	601A-Q 401 601A-Q 601A-Q 1162-G			R357 R358 R359 R360 R361	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 820K 100		1/10W 1/10W 1/10W 1/10W 1/10W	
Q321 Q322 Q323 Q324 Q325	8-729-216-22 8-729-422-27 8-729-216-22 8-729-216-22	TRANSISTOR 25A TRANSISTOR 25A TRANSISTOR 25A	1162-G 601A-Q 1162-G 1162-G			R362 R363 R364 R365 R366	1-216-079-00 1-216-295-00 1-216-045-00 1-216-017-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	18K 0 680 47 10	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q326 Q327 Q328 Q329 Q330	8-729-422-27 8-729-422-27	TRANSISTOR 2SDI TRANSISTOR 2SDI TRANSISTOR 2SDI TRANSISTOR IMX TRANSISTOR IMX	601A-Q 601A-Q 601A-Q 3 3			R367 R368 R369 R370 R371	1-216-045-00 1-216-001-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 10 220 220 220 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q333 Q334 Q335 Q340 Q342	8-729-925-79 8-729-422-27 8-729-907-46 8-729-422-27 8-729-925-79	TRANSISTOR IMX TRANSISTOR IMX TRANSISTOR IMX TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR IMX TRANSISTOR IMX TRANSISTOR 2SA	601A-Q 1 601A-Q			R372 R373 R374	1-216-031-00 1-216-671-11 1-216-037-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	180 6.8K	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q344	8-729-216-22	TRANSISTOR 2SA	1162-G			R377 R378	1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 220		1/10W 1/10W	
R301		ISTOR> METAL GLAZE	100 5%	1/10W		R379 R380 R381	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE	220 220 220	5%	1/10W 1/10W 1/10W	
R302 R303 R304 R305		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 5% 18K 5% 22K 5% 6.8K 5%	1/10W 1/10W 1/10W 1/10W		R384 R385	1-216-033-00 1-216-653-11 1-216-041-00 1-216-081-00	METAL GLAZE METAL GLAZE	470 22K	5% 0.50% 5%	1/10W 1/10W	
R306 R307 R308 R309	1-216-081-00 1-216-089-00 1-216-037-00 1-216-073-00	METAL GLAZE	22K 5% 47K 5% 330 5% 10K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W		R386 R387 R388	1-216-687-11 1-216-033-00 1-216-033-00	METAL CHIP METAL GLAZE METAL GLAZE	33K 220 220	0.50% 5%	1/10W 1/10W 1/10W	
R310 R312	1-216-065-00 1-216-043-00	METAL GLAZE	4.7K 5% 560 5%	1/10W 1/10W		R389 R390 R391	1-216-081-00 1-216-033-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 220 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W	
R313 R314 R316 R317	1-216-035-00 1-216-061-00 1-216-035-00 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE	270 5% 3.3K 5% 270 5% 1M 5%	1/10W 1/10W 1/10W 1/10W		R393 R394 R395 R396	1-216-051-00 1-216-109-00 1-216-071-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 330K 8.2K 220K	5% 5%	1/10W 1/10W 1/10W 1/10W	
R320 R325 R326	1-216-039-00 1-216-033-00 1-216-057-00	METAL GLAZE	390 5% 220 5% 2.2K 5%	1/10W 1/10W 1/10W		R397 R398	1-216-081-00	METAL GLAZE METAL GLAZE	22K 22K		1/10W 1/10W	
R331 R332	1-216-017-00 1-216-657-11	METAL CHIP	47 5% 1.8K 0.50	1/10W 7/10W		R399 R1301 R1302	1-216-077-00 1-216-049-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 1K 680	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R333 R336 R338	1-216-051-00 1-216-047-00 1-216-043-00	METAL GLAZE METAL GLAZE	1.2K 5% 820 5% 560 5% 820 5%	1/10W 1/10W 1/10W			1-216-085-00	METAL GLAZE	33K 22K	5%	1/10W	
R339 R340 R341	1-216-047-00 1-216-651-11 1-216-043-00	METAL CHIP	820 5% 1K 0.50 560 5%	1/10W % 1/10W 1/10W		R1305 R1306 R1307 R1308	1-216-025-00 1-216-057-00 1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 2.2K 10K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
				_, _, .			000			~ 10	., .,	

-
---

REF.NO. PA	RT NO.	DESCRIPTION			REMAR	C REF.NO	. PART NO.	DESCRIPTION		L	REMARK
R1310 1-1 R1311 1-1 R1312 1-1	216-025-00 216-045-00 216-049-00 216-073-00 216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 680 1K 10K 22K	5% 1/5% 1/5% 1/5% 1/5% 1/5% 1/5% 1/5% 1/	OW OW	R1390 R1391 R1392	1-216-097-00 1-216-097-00 1-216-097-00 1-216-081-00	METAL GLAZE METAL GLAZE	100K 5% 100K 5% 100K 5% 22K 5% 22K 5%	1/10W 1/10W 1/10W	
R1315 1- R1316 1- R1317 1-	216-049-00 216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 1K 22K 10K 4.7K	5% 1/	OW OW	R1395 R1396 R1399 R5301	1-216-081-00 1-216-081-00 1-216-125-00 1-216-065-00 1-216-057-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 5% 22K 5% 1.5M 5% 4.7K 5% 2.2K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
R1320 1- R1321 1- R1322 1-	216-063-00 216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 3.9K 22K 3.3K 47K	5% 1/ 5% 1/ 5% 1/ 5% 1/ 5% 1/	OW	R5303	1-216-085-00 1-216-085-00 1-216-085-00	METAL GLAZE	10K 5% 33K 5% 33K 5%	1/10W 1/10W 1/10W	
R1325 1- R1326 1- R1327 1-	216-045-00 216-025-00 216-073-00 216-033-00 216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 1/ 5% 1/ 5% 1/ 5% 1/	OW OW OW OW		<pre><cry ***********************************<="" 1-567-505-11="" td=""><td></td><td></td><td>:*****</td><td>*****</td></cry></pre>			:*****	*****
R1329 1- R1330 1- R1331 1- R1332 1-	216-077-00 216-081-00 216-081-00 216-093-00 216-129-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 22K 22K 68K 2.2M		10W 10W 10W 10W	10 10 10 10 10 10 10 10 10 10 10 10 10 1	*A-1394-443-A	Y2 BOARD, CO	MPLETE ******		
R1334 1- R1335 1- R1336 1- R1337 1-	216-097-00 216-089-00 216-089-00 216-065-00 216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 47K 47K 4.7K 4.7K	5% 1/ 5% 1/ 5% 1/ 5% 1/	10W 10W 10W 10W	C401 C424 C425 C426 C427	1-124-234-00 1-126-301-11 1-126-301-11 1-126-301-11 1-124-465-00	ELECT ELECT ELECT ELECT	22MF 1MF 1MF 1MF 0.47MF	20% 20% 20% 20% 20%	16V 50V 50V 50V 50V
R1340 1- R1342 1- R1343 1-	216-089-00 216-073-00 216-033-00 216-105-00 216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 10K 220 220K 56K	5% 1/ 5% 1/ 5% 1/ 5% 1/ 5% 1/	10W 10W 10W 10W	C428 C429 C430 C431 C432	1-126-163-11 1-124-478-11 1-124-261-00 1-126-301-11 1-126-301-11	ELECT ELECT ELECT ELECT ELECT	4.7MF 100MF 10MF 1MF 1MF	20% 20% 20% 20% 20%	50V 25V 50V 50V 50V
R1346 1- R1347 1- R1348 1-	216-101-00 216-049-00 216-049-00 216-049-00 216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 1K 1K 1K 1OK	5% 1/ 5% 1/ 5% 1/ 5% 1/ 5% 1/	10W 10W 10W 10W	C433 C434 C435 C436 C437	1-131-347-00 1-126-301-11 1-130-309-00 1-126-301-11 1-130-487-00	KILM	1MF 1MF 0.033MF 1MF 0.022MF	20% 20% 5% 20% 5%	16V 50V 100V 50V 50V
R1351 1- R1352 1- R1353 1-	216-091-00 216-049-00 216-039-00 216-053-00 216-081-00	METAL GLAZE	56K 1K 390 1.5K 22K	5% 1/ 5% 1/	00W 00W 00W 10W 10W	C438 C439 C440 C441 C442	1-126-301-11 1-124-034-51 1-126-301-11 1-126-301-11 1-124-261-00	ELECT	1MF 33MF 1MF 1MF 10MF	20% 20% 20% 20% 20%	50V 16V 50V 50V 50V
R1356 1- R1357 1- R1358 1-	216-017-00 216-057-00 216-081-00 216-033-00 216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47 2.2K 22K 220 220K	5% 1/ 5% 1/ 5% 1/	10W 10W 10W 10W	C443 C446 C447 C448 C449	1-124-589-11 1-124-234-00 1-126-301-11 1-136-170-00 1-163-009-11	ELECT ELECT ELECT FILM CERAMIC CHIP	47MF 22MF 1MF 0.27MF 0.001MF	20% 20% 20% 5% 10%	16V 16V 50V 50V 50V
R1364 1~ R1373 1- R1374 1-	-216-041-00 -216-053-00 -216-049-00 -216-025-00 -216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1.5K 1K 100 18K	5% 1/ 5% 1/ 5% 1/	10W 10W 10W 10W	C450 C451 C452 C453 C454	1-130-475-00 1-124-261-00 1-124-261-00 1-130-475-00 1-131-368-00	MYLAR ELECT ELECT MYLAR TANTALUM	0.0022MF 10MF 10MF 0.0022MF 3.3MF	5% 20% 20% 5% 10%	50V 50V 50V 50V 16V
R1381 1- R1382 1- R1383 1-	-216-075-00 -216-041-00 -216-079-00 -216-077-00 -216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 470 18K 15K 1K	5% 1/ 5% 1/ 5% 1/	10W 10W 10W 10W 10W	C455 C456 C457. C458 C459	1-131-347-00 1-136-171-00 1-136-175-00 1-126-101-11 1-126-101-11	TANTALUM FILM ELECT ELECT	1MF 0.33MF 0.68MF 100MF 100MF	20% 5% 5% 20% 20%	16V 50V 50V 16V 16V
R1386 1- R1387 1-	216-037-00 -216-037-00 -216-045-00 -216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 330 680 10	5% 1/ 5% 1/	10W 10W 10W 10W	C460 C461 C462 C465	1-126-101-11 1-124-499-11 1-124-499-11 1-130-485-00	ELECT ELECT ELECT NYLAR	100MF 1MF 1MF 0.015MF	20% 20% 20% 5%	16V 50V 50V 50V



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
C466 C467 C468 C469	1-130-485-00 1-136-169-00 1-136-169-00 1-126-157-11 1-126-157-11	MYLAR FILM FILM ELECT	0.015MF 0.22MF 0.22MF 10MF	5% 5% 5% 20%	50V 50V 50V 16V	R476	1-216-669-11 1-216-675-11	METAL GLAZE METAL CHIP	5.6K	0.50%	1/10W	
C471 C472 C473	1-124-589-11 1-164-232-11 1-164-232-11 1-124-234-00 1-164-232-11				16V 50V 50V	R479 R480 R481	1-216-089-00 1-216-669-11 1-216-675-11 1-216-089-00	METAL CHIP METAL GLAZE	10K 47K	5% 0.50% 0.50% 5%	1/10W 1/10W	
C474 C475 C476	1-124-234-00	CICCT	22ME		16V 50V 16V	R482 R483 R485 R486	1-216-089-00 1-216-089-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	47K 47K 10K 10K	5% 5%	1/10W 1/10W 1/10W 1/10W	
C477 C478 C479 C480	1-124-234-00 1-164-232-11 1-124-478-11 1-126-163-11 1-124-768-11	ELECT CERAMIC CHIP ELECT ELECT ELECT	0.01MF 100MF 4.7MF 4.7MF	10% 20% 20% 20%	50V 25V 50V 50V	R488 R494 R495	1-216-295-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	0		1/10W 1/10W 1/10W	
C481 C482 C483		ELECT BLECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP			50V 50V 50V	R496 R497 R498	1-216-025-00 1-216-033-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 100 220 100	5%	1/10W 1/10W 1/10W	
C484 C485 C487					50V 25V 50V	R499 R500 R501 R502	1-216-025-00 1-216-081-00 1-216-669-11 1-216-033-00	METAL CHIP	5.6K	5% 5% 0.50%	1/10W	
C488		CERAMIC CHIP CERAMIC CHIP				R503	1-216-663-11	METAL CHIP		5% 0.50%		
D40E	<dio< td=""><td>DE&gt;</td><td>1</td><td></td><td></td><td>R504 R507 R509</td><td>1-216-675-11 1-216-295-00 1-216-065-00</td><td>METAL GLAZE</td><td>0 4.7K</td><td>0.50% 5% 5% 5% 5%</td><td>1/10W 1/10W</td><td></td></dio<>	DE>	1			R504 R507 R509	1-216-675-11 1-216-295-00 1-216-065-00	METAL GLAZE	0 4.7K	0.50% 5% 5% 5% 5%	1/10W 1/10W	
D405 D406 D407	8-719-107-13 8-719-107-13 8-719-107-13	DIODE RD18M-B DIODE RD18M-B	1 1 1			R510 R512	1-216-061-00 1-216-065-00	METAL GLAZE				
D408 D409	8-719-105-83	DIODE RB-100A	83			R513 R515 R517	1-216-667-11 1-216-295-00 1-216-025-00	METAL CHIP METAL GLAZE METAL GLAZE	100	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W	
D410 D413 D414	8-719-981-50 8-719-158-19 8-719-158-55	DIODE RD6.2S- DIODE RD15S-B	В			R518 R519	1-216-295-00					
D415	<pre></pre>	DIONE KDI22-R				R521 R522 R523 R524 R525	1-216-061-00 1-216-033-00 1-216-033-00 1-216-065-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 220 220 4.7K 5.6K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
I C406 I C407	8-759-996-43 8-759-067-24 8-752-037-24 8-759-245-75 8-752-057-18	IC CXA1264AS IC TA8184P				R527	1-216-049-00 1-218-754-11 1-216-691-11 1-216-097-00 1-216-097-00	METAL GLAZE METAL CHIP METAL CHIP	1K 120K 47K		1/100	
	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R532 R533</td><td>1-216-097-00 1-216-097-00</td><td></td><td></td><td></td><td>1/10W 1/10W</td><td></td></tra<>	NSISTOR>				R532 R533	1-216-097-00 1-216-097-00				1/10W 1/10W	
Q404 Q405 Q409 Q410	8-729-216-22 8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1162-G D601A-Q			R535 R536 R537	1-216-049-00 1-216-065-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 100K 1K 4.7K 5.6K		1/10W 1/10W 1/10W	
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td>R538 R539 R542 R543</td><td>1-218-754-11 1-216-691-11 1-216-025-00 1-216-025-00</td><td>METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE</td><td>120K 47K 100 100</td><td>5% 5%</td><td>1/10W 1/10W 1/10W</td><td></td></res<>	ISTOR>				R538 R539 R542 R543	1-218-754-11 1-216-691-11 1-216-025-00 1-216-025-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE	120K 47K 100 100	5% 5%	1/10W 1/10W 1/10W	
R447 R453 R464 R465	1-216-033-00 1-216-033-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 220 5% 22K 5% 22K 5% 100 5%	1/106 1/106 1/106 1/106		R546 R547	1-216-682-11 1-216-681-11	METAL CHIP	20K 18K	0.50%		
R466 R467	1-216-025-00	METAL GLAZE METAL GLAZE		1/10W	į	! !	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td></con<>	NECTOR>				
R468 R469 R470 R471	1-216-033-00 1-216-055-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 220 5% 1.8K 5% 220 5% 220 5%	1/10W 1/10W 1/10W 1/10W	) )	ŀ		PIN, CONNECTO	7.7	-		*****
R472 R473 R474	1-216-686-11 1-216-295-00 1-216-295-00	METAL CHIP METAL GLAZE METAL GLAZE		1/10W 1/10W 1/10W	J							



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK																														
*A-1394-444-A	X2 BOARD, COMPLETE ***********************************			C2563 C2564 C2565	1-163-257-11 1-126-301-11 1-126-163-11	CERANIC CHIP ELECT ELECT	180PF 1MF 4.7MF	5% 20% 20%	50V 50V 50V																														
C2501 1-163-020-00 C2502 1-163-020-00 C2503 1-163-001-11 C2504 1-126-163-11	CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.0082MF CERAMIC CHIP 220PF BLECT 4.7MF CERAMIC CHIP 0.0082MF	10% 10% 10% 20% 10%	50V 50V 50V 50V 50V	C2568 C2569 C2570	1-126-163-11 1-126-163-11 1-163-263-11 1-163-257-11 1-124-234-00	CERAMIC CHIP CERAMIC CHIP ELECT	330PF 180PF 22MF	20% 20% 5% 5% 20%	50V 50V 50V 50V 16V																														
C2506 1-163-020-00 C2507 1-163-017-00 C2508 1-163-020-00 C2509 1-163-020-00	CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.003MF	10% 10% 10% 10% 10%	50V 50V 50V 50V 25V		1-126-301-11 1-126-163-11 1-124-234-00 1-126-301-11 1-126-301-11			20% 20% 20% 20% 20%	50V 50V 16V 50V 50V																														
	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V 25V 25V 25V	i	1-126-301-11 1-126-163-11 1-126-163-11 1-126-103-11 1-124-478-11	ELECT ELECT ELECT ELECT ELECT	1MF 4.7MF 4.7MF 470MF 100MF	20% 20% 20% 20% 20%	50V 50V 50V 16V 25V																														
C2516 1-164-232-11	CERAMIC CHIP 0.01MF ELECT 10MF ELECT 4.7MF ELECT 1MF ELECT 4.7MF	10% 20% 20% 20% 20%	50V 16V 50V 50V 50V	C2582 C2583 C2584 C2585		ELECT ELECT CERAMIC CHIP ELECT			50V 25V 50V 50V 50V																														
C2521 1-163-809-11 C2522 1-124-252-00 C2523 1-126-163-11	CERAMIC CHIP 0.047MF ELECT 0.33MF ELECT 4.7MF CERAMIC CHIP 0.1MF ELECT 4.7MF	10% 20% 20% 10% 20%	25V 50V 50V 25V 50V	C2587 C2588 C2589 C2590	1-163-009-11 1-126-163-11 1-126-163-11 1-126-163-11 1-126-163-11	ELECT ELECT ELECT ELECT	4.7MF 4.7MF 4.7MF 4.7MF	10% 20% 20% 20% 20% 20%	50V 50V 50V 50V 50V																														
	CERAMIC CHIP 0.1MF ELECT 10MF ELECT 0.47MF CERAMIC CHIP 0.033MF CERAMIC CHIP 0.0033MF	10% 20% 20% 10% 10%	25V 16V 50V 25V 50V	D2501	1-124-478-11 <dio 8-719-104-34</dio 	IDE> DIODE 182836		20%	25V																														
C2531 1-126-301-11 C2532 1-126-301-11 C2533 1-124-261-00 C2534 1-163-257-11 C2535 1-164-004-11	ELECT 1MF ELECT 1MF ELECT 10MF CERAMIC CHIP 180PF CERAMIC CHIP 0.1MF	20% 20% 20% 5% 10%	50V 50V 50V 50V 25V	D2503	8-719-106-88 8-719-106-88 8-719-106-88	DIODE RD15M-	B1																																
C2536 1-164-004-11 C2537 1-126-163-11 C2538 1-126-163-11 C2539 1-164-232-11 C2540 1-164-004-11	CERAMIC CHIP 0.1MF BLECT 4.7MF BLECT 4.7MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF	10% 20% 20% 10% 10%	25V 50V 50V 50V 25V	1 1 1 2 5 0 4	8-759-031-31 2 8-752-050-75 3 8-759-604-70 4 8-759-031-31 5 8-759-604-70	10 MC33174M																																	
C2541 1-163-139-00 C2542 1-124-478-11 C2543 1-124-252-00 C2544 1-164-161-11 C2545 1-126-301-11	ELECT 0.33MF CERAMIC CHIP 0.0022MF	5% 20% 20% 10% 20%	50V 25V 50V 50V 50V	1C2507	5 8-759-106-22 7 8-759-038-68 3 8-759-038-68	IC MC33172ML IC MC33172ML																																	
C2546 1-126-163-11 C2547 1-126-163-11 C2548 1-163-809-11 C2549 1-126-163-11 C2550 1-126-163-11	ELECT 4.7MF CERAMIC CHIP 0.047MF ELECT 4.7MF	20% 20% 10% 20% 20%	50V 25V 25V 50V 25V	J2501	<jac *1-573-966-11 <tr <="" td=""><td></td><td>OR (PC BOAR</td><td>D) 36P</td><td></td></tr><tr><td>C2551 1-126-301-11 C2552 1-126-163-11 C2553 1-126-301-11 C2554 1-124-234-00 C2555 1-164-004-11</td><td></td><td>20% 20% 20% 20% 10%</td><td>50V 50V 50V 16V 25V</td><td>,</td><td></td><td>SISTOR&gt;</td><td></td><td></td><td></td></tr><tr><td>C2556 1-124-257-00 C2557 1-124-234-00 C2558 1-126-301-11 C2559 1-164-004-11 C2560 1-164-161-11</td><td>ELECT 22MF ELECT 1MF CERAMIC CHIP 0.1MF</td><td>20% 20% 20% 10% 10%</td><td>50V 16V 50V 25V 50V</td><td>R2502 R2503 R2504</td><td>1-216-079-00 1-216-097-00 1-216-091-00 1-216-109-00 1-216-109-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>18K 5% 100K 5% 56K 5% 330K 5% 330K 5%</td><td>1/10 1/10 1/10 1/10 1/10</td><td>W W W</td></tr><tr><td>C2561 1-126-301-11 C2562 1-163-263-11</td><td>ELECT 1MF CERAMIC CHIP 330PF</td><td>20% 5%</td><td>50V 50V</td><td>1 1 1 1 1 1 1 1</td><td></td><td></td><td></td><td></td><td></td></tr></jac 		OR (PC BOAR	D) 36P		C2551 1-126-301-11 C2552 1-126-163-11 C2553 1-126-301-11 C2554 1-124-234-00 C2555 1-164-004-11		20% 20% 20% 20% 10%	50V 50V 50V 16V 25V	,		SISTOR>				C2556 1-124-257-00 C2557 1-124-234-00 C2558 1-126-301-11 C2559 1-164-004-11 C2560 1-164-161-11	ELECT 22MF ELECT 1MF CERAMIC CHIP 0.1MF	20% 20% 20% 10% 10%	50V 16V 50V 25V 50V	R2502 R2503 R2504	1-216-079-00 1-216-097-00 1-216-091-00 1-216-109-00 1-216-109-00	METAL GLAZE METAL GLAZE METAL GLAZE	18K 5% 100K 5% 56K 5% 330K 5% 330K 5%	1/10 1/10 1/10 1/10 1/10	W W W	C2561 1-126-301-11 C2562 1-163-263-11	ELECT 1MF CERAMIC CHIP 330PF	20% 5%	50V 50V	1 1 1 1 1 1 1 1					
	OR (PC BOAR	D) 36P																																					
C2551 1-126-301-11 C2552 1-126-163-11 C2553 1-126-301-11 C2554 1-124-234-00 C2555 1-164-004-11		20% 20% 20% 20% 10%	50V 50V 50V 16V 25V	,		SISTOR>																																	
C2556 1-124-257-00 C2557 1-124-234-00 C2558 1-126-301-11 C2559 1-164-004-11 C2560 1-164-161-11	ELECT 22MF ELECT 1MF CERAMIC CHIP 0.1MF	20% 20% 20% 10% 10%	50V 16V 50V 25V 50V	R2502 R2503 R2504	1-216-079-00 1-216-097-00 1-216-091-00 1-216-109-00 1-216-109-00	METAL GLAZE METAL GLAZE METAL GLAZE	18K 5% 100K 5% 56K 5% 330K 5% 330K 5%	1/10 1/10 1/10 1/10 1/10	W W W																														
C2561 1-126-301-11 C2562 1-163-263-11	ELECT 1MF CERAMIC CHIP 330PF	20% 5%	50V 50V	1 1 1 1 1 1 1 1																																			



REF.NO. F	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R2507 1 R2508 1	1-216-101-00 1-216-091-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE	150K 56K 18K 2.4M 100K	57	1/100		R2572	1-216-049-00	METAL CLATE	1K 5%	1/10W	
R2510 1 R2511 1	1-216-097-00 1-216-085-00			5% 5%	1/10W 1/10W		R2575 R2576 R2577	1-216-082-00 1-216-085-00 1-216-089-00 1-216-049-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	24K 5% 33K 5% 47K 5% 1K 5% 22K 5%	1/10W 1/10W 1/10W 1/10W	
R2513 1 R2514 1	1-216-085-00 1-216-103-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 180K 33K 180K 10K	5% 5%	1/10W 1/10W		R2578	1-216-081-00 1-216-049-00	METAL GLAZE	22K 5% 1K 5% 22K 5% 22K 5%	1/10W 1/10W 1/10W 1/10W	
R2517 1 R2518 1 R2519 1	1-216-072-00 1-216-133-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 3.3M 9.1K 3.3M 3.3M	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R2582 R2583 R2584	1-216-089-00 1-216-049-00 1-216-081-00 1-216-081-00 1-216-049-00 1-216-081-00 1-216-081-00 1-216-083-00 1-216-083-00 1-216-081-00 1-216-085-00 1-216-085-00 1-216-085-00 1-216-081-00 1-216-085-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	27K 5% 27K 5% 22K 5%	1/10W 1/10W 1/10W	
R2521 1	1-216-133-00		3.3M 3.3K 15K	5% 5%	1/10W 1/10W		R2585 R2586 R2587	1-216-073-00 1-216-085-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	27K 5% 22K 5% 10K 5% 33K 5% 33K 5%	1/10W 1/10W 1/10W	
R2523 1 R2524 1 R2526 1	1-216-077-00 1-216-129-00 1-216-133-00	METAL GLAZE	2.2M 3.3M	5% 5% 5%	1/10W 1/10W 1/10W		R2588 R2589 R2590 R2591	1-216-085-00 1-216-085-00 1-216-085-00 1-216-081-00 1-216-079-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	18K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W	
R2528 1 R2529 1	l-216-081-00 l-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3N 22K 22K 3.3M 47K	5% 5% 5%	1/10W 1/10W 1/10W		R2592	1-216-073-00	METAL GLAZE		1/10W 1/10W	
R2531 1	1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3M 47K	5% 5%	1/10W 1/10W		R2594 R2595 R2596	1-216-073-00 1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	18K 5% 10K 5% 47K 5% 1K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W	
R2533 1 R2534 1 R2535 1	l-216-089-00 l-216-073-00 l-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 10K 10K 2.2M	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R2598 R2599 R2600	1-216-089-00 1-216-073-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 10K 5% 1K 5%	1/10W 1/10W 1/10W	
R2539 1		METAL GLAZE METAL GLAZE METAL GLAZE	15K 3.3K 12K	5% 5% 5%	1/10W 1/10W 1/10W		R2602 R2604	1-216-089-00	METAL GLAZE METAL GLAZE	10K 5%	1/10W 1/10W 1/10W	
R2541 1 R2542 1	1-216-069-00 1-216-081-00	METAL GLAZE METAL GLAZE	6.8K 22K	5% 5%	1/10W 1/10W		R2605 R2606 R2610	1-216-049-00 1-216-049-00 1-216-125-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 1K 5% 1.5M 5%	1/10W 1/10W 1/10W	
R2544 1 R2545 1 R2546 1	1-216-133-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 10K 910 3.3M 3.3M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2611 R2612 R2613 R2614	1-216-089-00 1-216-049-00 1-216-049-00 1-216-073-00 1-216-089-00 1-216-089-00 1-216-089-00 1-216-049-00 1-216-049-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5M 5% 1.5M 5% 1.5M 5% 1.5M 5%	1/10W 1/10W 1/10W 1/10W	
R2549 1	I-216-073-00 I-216-065-00 I-216-088-00	METAL GLAZE METAL GLAZE	10K 4.7K	5% 5%	1/10W 1/10W		R2615 R2616	1-216-125-00 1-216-125-00	METAL GLAZE	1.5M 5% 1.5M 5%	1/10W 1/10W 1/10W	
R2551 1	I-216-088-00 I-216-088-00 I-216-049-00	METAL GLAZE METAL GLAZE	43K 1K	5% 5%	1/10W 1/10W		R2618 R2619	1-216-061-00 1-216-049-00	METAL GLAZE METAL GLAZE	3.3K 5% 1K 5%	1/10W 1/10W 1/10W	
R2554 R2555 R2556	1-216-078-00 1-216-082-00 1-216-089-00 1-216-049-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	16K 24K 47K 1K 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			************* *A-1316-149-A		PLETE	*******	******
R2558 R2559	1-216-088-00 1-216-091-00 1-216-103-00	METAL GLAZE METAL GLAZE METAL GLAZE	43K 56K 180K	5% 5% 5% 5%	1/10W 1/10W 1/10W			1-533-223-11 3-701-754-00 4-382-854-11	PLATE, INSUL		1	
R2561	1-216-097-00 1-216-089-00	METAL GLAZE METAL GLAZE	100K 47K	5%	1/10W 1/10W			<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td></cap<>	ACITOR>			
R2564 R2565 R2566	1-216-088-00 1-216-088-00 1-216-103-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	43K 43K 180K 10K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C601 C602 C603 C605 C606	1-161-830-00 1-130-317-00 1-124-634-11 1-164-143-11 1-124-563-11	CERANIC FILM ELECT CERANIC ELECT	4700PF 0.068MF 1MF 0.001MF 2200MF	10% 5% 20% 10% 20%	500V 100V 250V 1KV 25V
R2569 R2570	1-216-049-00 1-216-097-00 1-216-091-00 1-216-078-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 100 K 56 K 16 K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C607 C608 C609 C612	1-124-563-11 1-128-484-11 1-137-141-11 1-124-962-11	ELECT ELECT FILM ELECT	2200MF 100MF 0.082MF 2200MF	20% 20% 3% 20%	25V 200V 600V 25V



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C616 C617 C618		ELECT ELECT CERAMIC FILM	10MF 1MF 1000MF 0.001MF 0.56MF	20% 20% 20% 10% 5%	200V 160V 25V 1KV 200V	D634 D636	8-719-911-19 8-719-511-40 8-719-505-60 8-719-911-19 8-719-109-85	DIODE SIVB40 DIODE S5VB60 DIODE ISS119 DIODE RD5.1ES-	82	Hit I
C619 C620 C621 C622 C623	1-164-735-11 1-136-721-21 1-164-143-11 1-136-853-11 1-137-087-11	FILM CERAMIC	1500PF 1.5MF 0.001MF 0.56MF 0.068MF	10% 10% 5% 3%	400V 1KV 200V	D638 D640 A D650	8-719-911-19 8 8-719-510-09 8-719-160-81			· · · · · · · · · · · · · · · · · · ·
C625 C626 C628	1-126-771-11 1-126-183-11 1-126-373-11 1-161-830-00 1-124-607-11	ELECT ELECT CERAMIC	100MF 1000MF 470MF 4700PF 2200MF	20% 20% 20% 10% 20%	160V 16V 10V 500V	F601 Z		· PUSE, GLASS TU	BE 6.3A/125V	one de
∠ C637 <b>Δ</b>	1-126-803-11 1-124-903-11 1-130-483-00 1-126-803-11 1-136-311-51	ELECT MYLAR ELECT FILM	47MF 1MF 0.01MF 47MF 0.47ME	20% 20% 5% 20% 20%	50V 50V 50V 16V 125V	FB604 FB606	1-410-397-21 1-410-396-41 1-410-397-21 1-410-397-21	FERRITE BEAD I FERRITE BEAD I FERRITE BEAD I FERRITE BEAD I FERRITE BEAD I	NDUCTOR 0.45UH NDUCTOR 1.1UH NDUCTOR 1.1UH	
C639 <u>A</u> C640 <u>A</u> C641	.1-161-743-12 1-125-692-11 1-136-311-51 1-126-101-11 1-161-743-12	ELECT (BLOCK) ELECT	820MF 0_47MF 100MF	20% 20% 20%	400V 200V 125V 16V 400V	FB630	1-410-397-21 1-410-396-41	FERRITE BEAD I FERRITE BEAD I FERRITE BEAD I FERRITE BEAD I	NDUCTOR 1.1UH NDUCTOR 0.45UH	
C644 C646	1-126-104-11 1-124-907-11 1-164-486-51	ELECT ELECT CERAMIC	470MF 10MF 0.0033MF	20% 20% 20%	35V 50V 400V		<con< td=""><td>NECTOR&gt;</td><td></td><td></td></con<>	NECTOR>		
C648 A C649 A C650 A C660	1-125-692-11 1-164-486-51 1-161-743-12 1-102-125-00	CERAMIC CERAMIC CERAMIC	0.0033MF 0.0047MF 0.0047MF	20% 20% 10%	200V 400V 50V	G2 G3 G4	*1-508-786-00 *1-564-512-11 *1-564-507-11 *1-564-511-11 *1-564-508-11	PIN, CONNECTOR PLUG, CONNECTO PLUG, CONNECTO PLUG, CONNECTO PLUG, CONNECTO	R 4P R 8P	
C661 C662 C663 C664	1-102-125-00 1-124-910-11 1-126-017-11 1-126-017-11	ELECT ELECT	0.0047MF 47MF 6800MF	10% 20% 20% 20%	50V 35V 16V	G8 G9 G10	*1-508-786-00	PIN, CONNECTOR	(POWER) (5MM PITCH) 3P (5MM PITCH) 2P	
C670	1-102-074-00 <dio< td=""><td></td><td>0.001MF</td><td>10%</td><td>50V</td><td>1</td><td>*1-564-511-31 *1-564-505-11</td><td>PLUG, CONNECTO</td><td></td><td>-</td></dio<>		0.001MF	10%	50V	1	*1-564-511-31 *1-564-505-11	PLUG, CONNECTO		-
D602 D603	8-719-979-58 8-719-500-67	DIODE EGP10D	.11				<10>			
D604 D605 D607	8-719-500-67 8-719-510-09 8-719-988-31 8-719-025-81	DIODE D10SC6	M MR				<b>8</b> 749 921 89 8-759-231-58			
D608 D609 D610	8-719-109-85 8-719-109-84 8-719-979-58	DIODE RD5.1E DIODE RD5.1E DIODE EGP10D	S-B1			L602	COI	L> COIL, CHOKE 90	nii u	
D611 D613 D614	8-719-979-58 8-719-303-57 8-719-979-58	DIODE EGPIOD DIODE RUZAM DIODE EGPIOD				L604 L605 L607 L611	1-408-404-00 1-412-526-11 1-408-404-00 1-412-546-41	INDUCTOR INDUCTOR	3.9UH 12UH 3.9UH 56OUH	
D615 D616 D617 D618	8-719-975-76 8-719-025-81 8-719-110-02 8-719-911-19	DIODE SB140 DIODE S3V10S DIODE RD7.5E DIODE 1SS119	S-B1			L612 L613	1-412-540-31 1-412-522-41		180UH 5.6UH	
	8-719-975-76 8-719-988-31	DIODE DIOSCO	MR :					NSISTOR>		
D621 D622 D623 D624	8-719-908-03 8-719-908-03 8-719-110-63 8-719-109-89	DIODE GPO8D DIODE RD24ES DIODE RD5.6E				Q603 Q604 Q607 Q608 Q609	8-729-011-15 8-729-119-80 8-729-119-78 8-729-326-11 8-729-119-76	TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SA	2688-LK 2785-HFE 2611	
D626 D628 D629	8-719-908-03 8-719-110-49 8-719-911-19	DIODE RD18ES	5-B2			Q610 Q611	8-729-019-58	TRANSISTOR 25A	1208T-TP	

G CR

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
Q612 Q613 Q614 Q615 Q616	8-729-386-12 8-729-209-15 8-729-011-15 8-729-019-58 8-729-208-39	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	D2012 C4582N A1208T	P - <b>T</b> P			R669	1-249-377-11 5 1-202-888-91 6 1-215-904-91 1-249-377-11	CARBON	0.47 5% 2.2M 20% 100K 5% 0.47 5% 0.47 5%	1/4W 1/2W 2W 1/4W	F
Q618 Q620 Q621 Q623 Q629	8-729-119-78 8-729-119-78 8-729-119-76	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2785- C2785- A1175-	HFE HFE			R675 R687 R689 R691 R694 R697	1-249-417-11 1-247-742-11 1-249-421-11	CARBON CARBON CARBON CARBON	1K 5% 180 5% 2.2K 5% 2.2K 5% 1.2 5%	1/4W 1/4W 1/2W 1/4W 1/4W 1/4W	F
Q630	8-729-255-12	TRANSISTOR 2S	C2551-	0			R698	1-216-386-11		0.56 5%	3W	F
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td><rel< td=""><td><b>\Y&gt;</b></td><td></td><td></td><td></td></rel<></td></res<>	ISTOR>						<rel< td=""><td><b>\Y&gt;</b></td><td></td><td></td><td></td></rel<>	<b>\Y&gt;</b>			
R604 R605 R606 R609 R610	1-214-919-00	CARBON	0.1 8.2K 180K 27K 100K	10% 5% 1% 5% 1%	1/2W 1/4W 1/2W 1/4W 1/4W	F F	RY601A RY602A	\$ 1-515-805-11 \$ 1-515-805-11	RELAY, POWER			
R611	1-249-421-11	CARBON	2.2K	5%	1/4W	F			NSFORMER>			
R612 R613 R614 R615	1-202-883-11 1-216-386-11 1-249-418-11 1-215-438-00	SOLID METAL OXIDE CARBON METAL	680K 0.56 1.2K 5.1K	20% 5% 5% 1%	1/2W 3W 1/4W 1/4W	<b>F</b>	T603 <u>A</u> T604 <u>A</u> T605 A	\$ 1-450-791-12 \$ 1-424-020-11 \$ 1-450-149-11 \$ 1-424-023-12 \$ 1-421-372-21	PRT TRANSFORMER, TRANSFORMER.	HEATER LINE FILTE	R	
R616 R617 R618 R619 R620	1-249-418-11 1-216-444-11	METAL OXIDE CARBON	4.3K 3.9 1.2K 82K 1.2K	1% 5% 5% 5%	1/4W 1W 1/4W 1W 1/4W	न न		1-423-665-11		And the second s		
. R621	1-247-691-11	CARBON			1/4W-	F	VDR601	<b>▲</b> 1-809-786-11				
R622 R623 R624	1-249-424-11 1-249-417-11 1-214-780-00	CARBUN CARBON METAL	18 3.9K 1K 130K 0.56	5% 5%	1/4W 1/4W 1/4W	F	*****	******	*******	*******	******	******
R625	1-216-386-11		0.56	5%	3W	F		*A-1331-259-A	CR BOARD, CO			
R626 R627 R628 R629 R631	1-216-356-00 1-202-883-11 1-249-410-11 1-207-620-00 1-249-417-11	SOLID CARBON WIREWOUND	3.9 680K 270 1 1K	5% 20% 5% 10% 5%	3W	4 4 4	C701	1-162-115-00	ACITOR>	330PF	10%	2KV
R632 R633 R634 R635 R636	1-214-913-00 1-249-429-11 1-249-441-11 1-215-897-11 1-260-065-11	CARBON CARBON METAL OXIDE	100K 10K 100K 6.8K 1.2	1% 5% 5% 5%	1/2W 1/4W 1/4W 2W 1/2W	£.	C705	1-123-948-00 1-102-050-00 1-162-115-00 1-130-479-00	CERAMIC CERAMIC	22MF 0.01MF 330PF 0.0047MF	20% 10% 5%	250V 500V 2KV 50V
R638 R639 R640 R641 R642	1-249-405-11 1-249-405-11 1-249-421-11 1-249-429-11	CARBON CARBON CARBON CARBON METAL	100 100 2.2K 10K	5% 5% 5% 5% 1%	1/4W 1/4W	ት ት	C707 C709 C710 C711	1-101-006-00 1-124-120-11 1-124-120-11 1-102-114-00	CERAMIC BLECT ELECT CERAMIC	0.047MF 220MF 220MF 470PF	20% 20% 10%	50V 16V 16V 50V
R643	1-215-421-00 1-260-123-11	CARBON	100K	5%	1/4W		1	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td></con<>	NECTOR>			
R644 R645 R649 R650	1-249-415-11 1-249-417-11 1-249-424-11 1-249-377-11	CARBON CARBON CARBON CARBON	680 1K 3.9K 0.47	5% 5% 5%	1/4W 1/4W 1/4W	F	CR3		PIN, CONNECT PLUG, CONNEC	OR (5MM PI' TOR 8P	CCH) 1P CCH) 3P	
R651 ■R652 <u>A</u>	1-215-429-00	METAL METAL		1%	1/4W 1/4W			<pic></pic>	Ture tube soc	KET>		
R654 R655 R656	1-215-429-00 1-249-426-11 1-215-454-00	METAL CARBON METAL	2.2K 5.6K 24K	1% 5% 1%	1/4W 1/4W 1/4W			<b>&amp;</b> 1= 25 [ = 126= ) [	SOCKET, PIC	TURE TUBE		
R657 R660	1-216-386-11 1-249-418-11	METAL OXIDE CARBON	0.56 1.2K	5% 5%	3W 1/4W	F	-	<dio< td=""><td>DE&gt;</td><td></td><td></td><td></td></dio<>	DE>			
R661 A R662 A	1-202-884-91 1-205-900-11 1-215-904-91	SOLID WIREWOUND	820K 1.2 100K	20% 5%	1/2W 15W 2W		D701 D702 D703	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119		ŧ	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
D705	8-719-911-19 8-719-911-19 8-719-911-19 8-719-110-36	DIODE 1SS119 DIODE 1SS119	·B2				C731	1-162-115-00	ACITOR> CERANIC	330PF	10%	2KV
	<c011< td=""><td></td><td></td><td></td><td></td><td></td><td>C732 C733 C734</td><td>1-123-948-00 1-102-050-00 1-162-115-00 1-130-479-00</td><td>ELECT CERAMIC</td><td>22MF 0.01MF 330PF 0.0047MF</td><td>20% 10% 5%</td><td>250V 500V 2KV 50V</td></c011<>						C732 C733 C734	1-123-948-00 1-102-050-00 1-162-115-00 1-130-479-00	ELECT CERAMIC	22MF 0.01MF 330PF 0.0047MF	20% 10% 5%	250V 500V 2KV 50V
L701 L702 L703 L704	1-408-429-00 1-408-159-00 1-408-159-00 1-408-413-00	COIL, SPOOK C	HOKE 3	. 3UH . 3UH			C736 C737 C739	1-101-006-00 1-101-006-00 1-124-120-11 1-124-120-11	CERANIC CERANIC ELECT	0.047MF 0.047MF 220MF 220MF	20% 20%	50V 50V 16V
	<neoi< td=""><td>N LAMP&gt;</td><td></td><td></td><td></td><td></td><td>C741</td><td>1-102-114-00</td><td>CERAMIC</td><td>470PF</td><td>10%</td><td>16<b>V</b> 50<b>V</b></td></neoi<>	N LAMP>					C741	1-102-114-00	CERAMIC	470PF	10%	16 <b>V</b> 50 <b>V</b>
NL701 NL702	1-519-108-99 1-519-108-99	LAMP, NEON · LAMP, NEON					E		NECTOR>			
	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td><td>CG3</td><td>*1-508-784-00 *1-508-765-00 *1-564-508-11</td><td>PIN, CONNECT</td><td>OR (5MM PI</td><td>TCH) 1P TCH) 3P</td><td></td></tra<>	NSISTOR>					CG3	*1-508-784-00 *1-508-765-00 *1-564-508-11	PIN, CONNECT	OR (5MM PI	TCH) 1P TCH) 3P	
Q701 Q702	8-729-119-78 8-729-119-78	TRANSISTOR 25	C2785-	HFE				<p1c< td=""><td>TURE TUBE SOC</td><td>KET&gt;</td><td></td><td></td></p1c<>	TURE TUBE SOC	KET>		
Q703	8-729-119-80 4-373-933-01 4-382-854-11	SHEET (TRANSI	STOR).	BN: Q	703 Q703		(4173)	<b>A</b> 1-251-026-11	SUCKET, PIC	TURE PUBE		
Q704 Q705	8-729-255-12 8-729-200-17	TRANSISTOR 2S	C2551-	0				<010	DE>			
Q706	8-729-200-17				•		D731 D732 D733	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119			
Ď.		ISTOR>	P.C. 0.11	0.084			D734	8-719-911-19 8-719-911-19	DIODE 188119			
R701 R702 R703 R704 R705	1-202-847-00 1-202-814-11 1-202-818-00 1-202-842-11 1-202-828-11	SOLID SOLID	560K 33K 1K 220K 6.8K	20% 20% 20% 20% 20%	1/2W 1/2W 1/2W 1/2W 1/2W		D736 D737	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119			
R706	1-202-561-00	SOLID	330	20%	1/2W		†	<01				
R707 R708 R709 R710	1-216-510-11 1-249-405-11 1-249-405-11 1-215-927-00	METAL OXIDE CARBON CARBON METAL OXIDE	8.2K 100 100 47K	5% 5% 5%	5W 1/4W 1/4W 3W	4 4 4	L731 L732 L733 L734	1-408-429-00 1-408-159-00 1-408-159-00 1-408-413-00	INDUCTOR COIL, SPOOK COIL, SPOOK INDUCTOR	470UH CHOKE 3.3U CHOKE 3.3U 22UH	H H	
R711 R712	1-249-405-11 1-249-421-11	CARBON	100 2.2K	5% 5% 5%	1/4W 1/4W	F	!	<neo< td=""><td>N LAMP&gt;</td><td></td><td></td><td></td></neo<>	N LAMP>			
R716	1-249-401-11 1-249-405-11 1-249-403-11	CARBON CARBON CARBON	47 100 68	5% 5% 5%	1/4W 1/4W 1/4W		NL731 NL732	1-519-108-99 1-519-108-99	LAMP, NEON LAMP, NEON			
R718 R719	1-249-412-11 1-249-410-11		390 270	5% 5%	1/4W 1/4W		1	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<>	NSISTOR>			
R720 R721 R722	1-249-409-11	CARBON CARBON METAL	100 220 1.2K	5% 5% 1%	1/4W 1/4W 1/4W		Q731 Q732	8-729-119-78 8-729-119-78				
R723 R724	1-249-410-11	CARBON METAL	270 2.2K	5%	1/4W 1/4W		0733 0734 0735	8-729-119-80 8-729-255-12 8-729-200-17	TRANSISTOR 2 TRANSISTOR 2	SC2688-LK SC2551-0		•
		RK GAP>		-10	-,		Q736	8-729-200-17				
	1-519-422-11	GAP, SPARK					 	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
	1-519-422-11		:****	****	:****	******	R731 R732	1-202-847-00 1-202-814-11	SOLID SOLID	560K 20		
	*A-1331-260-A		IPLETE				R733 R734 R735	1-202-818-00 1-202-842-11 1-202-828-11	SOLID SOLID .	1K 20 220K 20 6.8K 20	% 1/2W % 1/2W	
	4-373-933-01 4-382-854-11						R736 R737 R738	1-202-561-00 1-216-510-11 1-249-405-11	SOLID METAL OXIDE CARBON	330 20 8.2K 5% 100 5%	7 1/2W 5 5W 1/4W	F F



Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. 

REF.NO.	. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R739 R740 R741 R742 R744	1-249-405-11 1-215-927-00 1-249-405-11 1-249-421-11 1-249-401-11	METAL OXIDE CARBON CARBON CARBON		5% 1/4W 5% 3W 5% 1/4W 5% 1/4W	F F	L762	<001 1-408-429-00 1-408-159-00 1-408-159-00 1-408-413-00	INDUCTOR COIL, SPOOK ( COIL, SPOOK (	CHOKE 3.3UH		
R745 R746 R747 R748 R749 R750 R751 R752 R754	1-249-410-11 1-249-405-11 1-249-409-11 1-215-423-00 1-215-429-00	CARBON CARBON CARBON CARBON CARBON METAL METAL RK GAP> GAP, SPARK	27K 100 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1		NL761 NL762 Q761 Q762 Q763 Q764 Q765	1-519-108-99 1-519-108-99 <tra 8-729-119-78 8-729-119-78 8-729-119-80 8-729-255-12</tra 	LAMP, NEON  NSISTOR>  TRANSISTOR 2:	SC2785-HFE SC2688-LK SC2551-0		
	1-019-422-11	•	******	*******	:*****	Q766	8-729-200-17	TRANSISTOR 2	SA1091-0		
	*A-1331-261-A	CB BUARD, CO				 	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td>,</td></res<>	ISTOR>			,
	4-373-933-01 4-382-854-11	SHEET (TRANS SCREW (M3X10)	ISTOR), I	BN (+)		R761 R762 R763 R764 R765	1-202-847-00 1-202-814-11 1-202-818-00 1-202-842-11 1-202-828-11	SOLID SOLID SOLID	560K 20% 33K 20% 1K 20% 220K 20% 6.8K 20%	1/2W 1/2W 1/2W 1/2W 1/2W	
C761		ACITOR>	22000	109	าหน	R766	1-202-561-00	SOLID	330 20% 8.2K 5%	1/2W	
C761 C762 C763 C764 C765	1-162-115-00 1-123-948-00 1-102-050-00 1-162-115-00 1-130-479-00	ELECT CERAMIC CERAMIC MYLAR	330PF 22MF 0.01MF 330PF 0.0047MI	10% 20% 10%	2KV 250V 500V 2KV 50V	R767 R768 R769 R770	1-216-510-11 1-249-405-11 1-249-405-11 1-215-927-00	CARBON CARBON METAL OXIDE	330 20% 8.2K 5% 100 5% 100 5% 47K 5%	5W 1/4W 1/4W 3W	4 4 4
C766 C767 C769 C770 C771	1-101-006-00 1-101-006-00 1-124-120-11 1-124-120-11 1-102-114-00	CBRAMIC CERAMIC BLECT ELECT CERAMIC	0.047MF 0.047MF 220MF 220MF 470PF	20% 20% 10%	50V 50V 16V 16V 50V	R771 R772 R773 R774 R776	1-249-405-11 1-249-421-11 1-249-413-11 1-249-401-11 1-249-405-11	CARBON CARBON CARBON	100 5% 2.2K 5% 470 5% 47 5% 100 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F F
CB1		NECTOR>	OR (5MM)	PITCH) 1P		R777 R778 R779 R780 R781	1-249-403-11 1-249-412-11 1-249-415-11 1-249-405-11 1-249-409-11	CARBON CARBON CARBON	68 5% 390 5% 680 5% 100 5% 220 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
CB3 CB4 CB5 CB17	*1-508-765-00 *1-564-511-11 *1-564-511-21	PIN, CONNECT PLUG, CONNEC PLUG. CONNEC	OR (5MM   TOR 8P TOR 8P	PITCH) 3P		R782 R783 R784 R785	1-215-423-00 1-215-433-00 1-215-429-00 1-215-418-00	METAL METAL METAL	1.2K 1% 3.3K 1% 2.2K 1% 750 1%	1/4W 1/4W 1/4W 1/4W	
		TURE TUBE SOC				9	<spa< td=""><td>RK GAP&gt;</td><td></td><td></td><td></td></spa<>	RK GAP>			
CRT76	I <b>∆</b> 1-251-026-11	SOCKET, PIC	Vide Tub		ot o		1-519-422-11 1-519-422-11	GAP, SPARK			
<b>.</b>	<dio< td=""><td></td><td></td><td></td><td></td><td></td><td>**********</td><td>, in the second</td><td>******</td><td>******</td><td>*****</td></dio<>						**********	, in the second	******	******	*****
D761 D762 D763	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119					*A-1342-214-A	V BOARD, COM			
D764 D765	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119					*4-395-527-01				
D766 D768	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119					<caf< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td></caf<>	PACITOR>			
D769	8-719-109-81	DIODE RD4.7E	S-B2			C1501 C1502 C1504 C1505 C1506	1-102-129-00 1-126-101-11 1-106-383-00 1-124-907-11 1-106-359-00	ELECT Mylar Elect	0.01MF 100MF 0.047MF 10MF 0.0047MF	10% 20% 20% 10%	50V 16V 200V 50V 200V



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
C1507 C1508 C1509 C1510 C1511	1-106-367-00 1-162-318-11 1-106-367-00 1-126-355-11 1-124-668-11	MYLAR CERAMIC MYLAR ELECT ELECT	0.01MF 0.001MF 0.01MF 33MF 2.2MF	10% 10% 10% 20% 20%	100V 500V 100V 160V 200V	Q1554 Q1555 Q1556	8-729-202-02 8-729-231-60 8-729-202-02	TRANSISTOR 2S TRANSISTOR 2S	B1015- D1406- B1015-	Y YGR Y		
C1512 C1513	1-106-391-12 1-162-318-11			10% 10%	200V 500V	R1501	1-249-451-11	ISTOR> CARBON	2.2	5%	1/4W	F
C1514 C1515 C1516	1-102-951-00 1-102-959-00 1-102-963-00	CERAMIC CERAMIC CERAMIC		5% 5% 5%	50V 50V 50V	R1502 R1503 R1504	1-249-414-11 1-247-734-11 1-249-384-11 1-249-405-11	CARBON CARBON CARBON CARBON	2.2 560 39 1.8 100	5% 5% 5% 5%	1/4W 1/2W 1/4W 1/4W	F
C1517 C1518 C1519 C1520 C1521	1-123-875-11 1-102-074-00 1-106-359-00 1-126-803-11 1-124-907-11	ELECT CERAMIC MYLAR ELECT ELECT	10MF 0.001MF 0.0047MF 47MF 10MF	20% 10% 10% 20% 20%	50V 50V 200V 16V 50V	R1506 R1507 R1508 R1509 R1510	1-249-419-11 1-249-412-11 1-249-436-11 1-249-421-11 1-249-436-11				1/4W 1/4W 1/4W 1/4W 1/4W	
C1551 C1552 C1553 C1554	1-101-003-00 1-124-122-11 1-124-122-11 1-102-824-00 1-102-824-00	ELECT ELECT CERAMIC CERAMIC	0.0047MF 100MF 100MF 470PF 470PF	20% 20% 5% 5%	50V 50V 50V 50V 50V	R1511 R1512 R1513 R1514	1-249-418-11 1-249-441-11 1-249-432-11 1-249-405-11 1-249-435-11	CARBON CARBON CARBON CARBON	1.2K 100K 18K 100 33K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
C1555 C1556 C1557 C1558 C1559	1-130-483-00 1-130-483-00 1-102-824-00 1-102-824-00 1-102-824-00 1-102-824-00 1-130-483-00 1-130-483-00 1-130-483-00	MYLAR MYLAR CERAMIC CERAMIC CERAMIC	0.01MF 0.01MF 470PF 470PF 470PF	5% 5% 5% 5%	50V 50V 50V 50V 50V	R1517 R1519 R1520	1-247-713-11 1-215-916-00 1-249-432-11 1-249-414-11 1-249-384-11	CARBON METAL OXIDE CARBON CARBON		555555555555555555555555555555555555555	1/4W 3W 1/4W 1/4W	F F
C1560 C1561 C1562 C1563	1-102-824-00 1-130-483-00 1-130-483-00 1-130-483-00	CERAMIC MYLAR MYLAR MYLAR			50V 50V 50V 50V		1-249-400-11 1-249-418-11 1-249-421-11 1-249-426-11 1-249-414-11				1/4W 1/4W 1/4W 1/4W 1/4W	
D. F. F. C.	<dio< td=""><td></td><td></td><td>•</td><td></td><td>i</td><td>1-249-429-11 1-249-414-11</td><td></td><td></td><td></td><td>1/4W</td><td></td></dio<>			•		i	1-249-429-11 1-249-414-11				1/4W	
D1502 D1503	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119				R1530 R1531 R1532	1-216-451-11 1-249-429-11 1-249-421-11	METAL OXIDE CARBON CARBON		5% 5% 5% 5% 5%	1/4W 2W 1/4W 1/4W	F
D1506 D1507 D1508	8-719-911-19 8-719-110-88 8-719-110-88 8-719-911-19	DIODE 1SS119 DIODE RD39ES DIODE RD39ES	-B2 -B2			R1533 R1534 R1535 R1540 R1541	1-247-903-91 1-249-423-11 1-249-392-11 1-215-445-00 1-215-445-00	CARBON CARBON CARBON METAL METAL	1M 3.3K 8.2 10K 10K	5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	Ą
	<ic></ic>					R1542 R1551	1-215-445-00 1-215-445-00	METAL METAL	10K 10K	1% 1%		
	8-759-145-58 8-759-912-77					R1553 R1554	1-215-423-00 1-249-417-11 1-215-445-00	CARBON METAL	1.2K 1K 10K	5% 1%	1/4W 1/4W 1/4W	
L1502	<001 1-408-418-00		56UH				1-215-375-00 1-215-375-00 1-215-375-00 1-215-445-00 1-215-445-00	METAL METAL METAL	12 12 10K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
		NSISTOR>				R1560	1-215-445-00	METAL			1/4W	
01501 01502 01503 01504 01505	8-729-208-39 8-729-017-06 8-729-119-78 8-729-119-78 8-729-119-76	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1306A-Y SC4793 SC2785-HFE SC2785-HFE SA1175-HFE			R1562 R1563 R1564	1-215-423-00 1-215-423-00 1-215-445-00 1-249-417-11 1-215-445-00	METAL METAL Carbon	10K 1.2K 1.2K 10K 1K	5%	1/4W 1/4W 1/4W 1/4W	
Q1506 Q1507 Q1508	8-729-119-78 8-729-119-78 8-729-142-86 8-729-231-60	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-HFE SC2785-HFE SC3733 SD1406-YGR			R1566 R1567 R1568 R1569	1-215-375-00 1-215-375-00	METAL METAL METAL METAL	12 12 12 10K	17 17 17 17 17	1/4W 1/4W 1/4W 1/4W	
Q1552	8-729-202-02 8-729-231-60	TRANSISTOR 2	SB1015-Y			R1571	1-215-445-00 1-249-417-11 1-215-445-00	CARBON	10K 1K 10K	1% 5% 1%	1/4W 1/4W 1/4W	



REF.NO. PART NO.	DESCRIPTION	1		REMARK	REF.NO.	PART NO.	DESCRIPTION	-		REMARK
R1573 1-215-375-00 R1574 1-215-375-00 R1575 1-215-375-00 R1576 1-215-445-00 R1577 1-215-445-00	METAL METAL METAL METAL METAL METAL	12 1% 12 1% 12 1% 10K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W		C1705 C1706 C1707 C1708 C1709	1-102-963-00 1-102-963-00 1-102-963-00 1-102-963-00	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	33PF 33PF 33PF 33PF	5% 5% 5% 5% 5% 5% 5%	50V 50V 50V 50V 50V
R1578 1-249-417-1 R1579 1-249-417-1 R1580 1-249-417-1 R1581 1-249-432-1 R1582 1-249-432-1	CARBON CARBON CARBON CARBON CARBON	1K 5% 1K 5% 1K 5% 1K 5% 18K 5% 18K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C1710 C1711 C1712 C1713 C1714 C1715	1-102-963-00 1-102-963-00 1-102-963-00 1-102-963-00 1-102-963-00 1-102-963-00 1-126-233-11 1-124-916-11 1-102-074-00 1-124-478-11 1-124-478-11	CERAMIC  ELECT ELECT CERAMIC ELECT ELECT ELECT	33PF 22MF 22MF 0.001MF 100MF	5% 20% 20% 10% 20% 20%	50V 50V 25V 50V 25V 25V
V2 *1-564-518-1 V22 1-573-300-1	PLUG, CONNE CONNECTOR, I	CTOR 3P BOARD TO BOAL	RD 18P	*******	C1717 C1718 C1719 C1720	1-126-803-11 1-102-074-00 1-124-234-00 1-130-491-00	ELECT CERAMIC ELECT MYLAR	47MF 0.001MF 22MF 0.047MF	20% 20% 10% 20% 5%	25V 25V 50V 16V 50V
*A-1346-117-/	D BOARD, COI	PLETE	)		C1721 C1722 C1724 C1725 C1726	1-130-491-00 1-130-491-00 1-124-234-00 1-102-963-00 1-124-122-11	MYLAR MYLAR ELECT CERAMIC BLECT	0.047MF 0.047MF 22MF 33PF 100MF	5% 5% 20%	50V 50V 16V 50V 35V
<0.000 <0.000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.00000	APACITOR>			16V	C1728	1-102-963-00 1-102-963-00 1-108-426-91 1-102-963-00 1-124-122-11	CERAMIC MYLAR CERAMIC ELECT	33PF 0.027MF 33PF 100MF	5% 5% 5% 20%	50V 50V 200V 50V 35V
C903 1-130-471-00 C904 1-130-471-00 C905 1-124-477-1	BLBCT MYLAR MYLAR ELECT	10MF 47MF 0.001MF 0.001MF 47MF	5% 5% 20% 20%	16V 50V 50V 16V	C1734	1-108-426-91 1-102-963-00 1-102-963-00 1-124-122-11 1-108-426-91	MYLAR CERAMIC CERAMIC ELECT MYLAR		5% 5% 20%	200V 50V 50V 35V 200V
C906 1-126-233-1 C907 1-126-101-1 C908 1-124-907-1 C910 1-130-483-0 C911 1-131-341-0 C912 1-124-903-1		22MF 100MF 10MF 0.01MF 0.1MF	20% 20% 5% 20%	16V 50V 50V 16V	C1737 C1738 C1739 C1740	1-124-937-11 1-124-122-11 1-136-153-00 1-124-122-11 1-124-122-11		10MF 100MF 0.01MF 100MF 100MF	20% 20% 5% 20% 20%	16V 35V 50V 35V 35V
C913 1-126-233-1 C914 1-126-803-1 C915 1-124-927-1 C916 1-102-074-00	ELECT E BLECT CERAMIC		20% 20% 20% 20% 10%	50V 16V 50V 50V	C1742 C1744 C1745	1-126-104-11 1-124-478-11 1-126-375-11	ELECT ELECT ELECT	470MF 100MF 100MF 0.1MF 0.1MF	20% 20% 20% 10%	35V 25V 25V 100V
C917 1-130-471-00 C918 1-102-963-00 C919 1-102-963-00 C920 1-102-963-00 C921 1-102-963-00	CERAMIC CERAMIC CERAMIC	0.001MF 33PF 33PF 33PF 33PF	5% 5%	304	1	1-106-220-00 1-106-220-00 1-106-220-00 1-106-220-00 1-106-220-00			10% 10% 10% 10% 10%	100V 100V 100V 100V 100V
C922 1-102-963-00 C923 1-102-963-00 C931 1-102-973-00 C932 1-124-903-1 C933 1-124-234-00	) CERAMIC ) CERAMIC L ELECT	33PF 33PF 100PF 1MF 22MF	5% 5% 5% 20% 20%	50V 50V 50V 50V 16V	C1764 C1765 C1766 C1766 C1769	1-126-096-11 1-124-477-11 1-124-477-11 1-126-101-11 1-126-157-11	ELECT ELECT ELECT ELECT ELECT	10MF 47MF 47MF 100MF 10MF	20% 20% 20% 20% 20%	25V 16V 16V 16V 16V
C934 1-124-234-0 C935 1-124-234-0 C936 1-124-234-0 C937 1-124-234-0 C938 1-124-234-0	) BLECT ) ELECT ) ELECT	22MF 22MF 22MF 22MF 22MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 16V	C1770	1-126-096-11 1-126-096-11 1-126-074-00	MYLAR  ELECT ELECT CERAMIC	0.1MF 10MF 10MF 0.001MF	5% 20% 20% 10%	25V 25V 50V
C939 1-124-234-01 C940 1-124-916-1 C941 1-102-123-01 C942 1-102-123-01 C943 1-102-123-01	ELECT CERAMIC CERAMIC	22MF 22MF 0.0033MF 0.0033MF 0.0033MF	20% 20% 10% 10% 10%	16V 25V 50V 50V 50V	D2	*1-564-510-11 *1-564-511-11	NECTOR> PLUG, CONNE	CTOR 8P		
C1701 1-124-907-1 C1702 1-124-907-1 C1703 1-124-907-1 C1704 1-123-875-1	ELECT ELECT	10MF 10MF 10MF 10MF	20% 20% 20% 20%	50V 50V 50V 50V	D4	*1-564-512-11 *1-564-508-11 *1-564-511-11 1-691-169-11	PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECT PI	CTOR 5P CTOR 8P		

specified.



REF.NO. PART NO.		REMARK	REF.NO.	PART NO.	DESCRIPTÍON			REMARK
D7 *1-564-507-11 D8 *1-564-506-11 D9 *1-564-507-11 D14 *1-564-513-31	PLUG, CONNECTOR 4P PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P PLUG, CONNECTOR 10P		L901 L902 L903	1-459-313-00 1-459-313-00 1-459-313-00	COIL WITH CORE COIL WITH CORE COIL WITH CORE COIL WITH CORE	(HWC)		
1910			2304   			(iiwc)		
D1702 8-719-911-19	DIODE 1SS119 DIODE VO9G DIODE VO9G		9902 9906 9907 9908	8-729-900-89 8-729-119-78 8-729-119-78	NSISTOR> TRANSISTOR DTC1 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR DTC1	2785–HFE 2785–HFE		
D1706 8-719-900-95	DIODE 1SS119 DIODE 1SS119 DIODE VO9G DIODE 1SS119 DIODE VO9G DIODE VO9G DIODE VO9G DIODE VO9G DIODE VO9G DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		Q909 Q910 Q911	8-729-119-78 8-729-119-78 8-729-119-76	TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SA1 TRANSISTOR 2SA1	2785-HFE 2785-HFE 175-HFE		
D1709 8-719-911-19 D1710 8-719-911-19	DIODE 1SS119 DIODE 1SS119			<re><res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<></re>	ISTOR>			
D1712 8-719-911-19 D1713 8-719-911-19 D1714 8-719-911-19 D1715 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		R901 R902 R903 R904 R905	1-215-463-00 1-215-463-00 1-215-449-00 1-215-455-00 1-215-449-00	METAL 5	56K 1% 56K 1% 15K 1% 27K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
D1716 8-719-911-19. D1717 8-719-911-19. D1718 8-719-911-19. D1720 8-719-109-50	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE RD2.0ES-B1		R906 R907 R908 R909	1-215-469-00 1-215-469-00 1-215-469-00 1-215-473-00	NETAL 1 METAL 1 METAL 1 METAL 1	100K 1% 100K 1% 100K 1% 150K 1%	1/4W 1/4W 1/4W 1/4W	
D1722 8-719-109-50 D1723 8-719-109-50			R910 R911 R912 R913	1-215-437-00 1-215-453-00 1-215-453-00 1-215-437-00	METAL 2 METAL 2 METAL 2 METAL 4	22K 1% 22K 1% 4.7K 1%	1/4W 1/4W 1/4W 1/4W	
<pus< td=""><td>E&gt;</td><td></td><td>R914 R915</td><td>1-215-453-00 1-215-413-00</td><td>METAL 2</td><td>22K 1% 170 1%</td><td>1/4W 1/4W</td><td></td></pus<>	E>		R914 R915	1-215-453-00 1-215-413-00	METAL 2	22K 1% 170 1%	1/4W 1/4W	
<1C>	PUSE, CLASS TUBE 3 15A/125V FUSE, GLASS TUBE 3 15A/125V		R916 R917 R919 R920 R921	1-215-457-00 1-215-453-00 1-215-399-00 1-215-399-00 1-215-399-00	METAL I METAL I	33K 1% 22K 1% 120 1% 120 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
IC901 8-759-145-58 IC902 8-752-033-68 IC903 8-759-701-56 IC904 8-759-701-65 IC905 8-759-701-89	IC NJM79MO5FA		R922 R923 R924 R925 R926	1-215-399-00 1-215-441-00 1-215-441-00 1-215-441-00 1-215-463-00	METAL 11 METAL 6 METAL 6 METAL 6 METAL 6	120 1% 5.8K 1% 5.8K 1% 6.8K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
IC906 8-759-148-84 IC907 8-759-140-53 IC908 8-759-145-58 IC910 8-759-054-40 IC1701 8-759-602-19	IC UPC2415HF IC UPD4053BC IC UPC4558C IC PA0036 IC M5220L		R927 R928 R929 R930 R931	1-215-463-00 1-215-461-00 1-215-433-00 1-215-433-00 1-215-433-00	METAL METAL METAL METAL	56K 1% 47K 1% 3.3K 1% 3.3K 1% 3.3K 1%	1/4W 1/4W 1/4W 1/4W	
IC1702 8-759-602-19 IC1703 8-759-602-19 IC1704 8-749-923-16 IC1705 8-749-923-16 IC1706 8-759-113-13	IC M5220L IC M5220L IC STK4278-L IC STK4278-L IC UPC1498H		R932 R933 R934 R935 R936	1-215-433-00 1-215-433-00 1-215-433-00 1-215-439-00 1-215-439-00	METAL METAL METAL METAL	3.3K 1% 3.3K 1% 3.3K 1% 5.6K 1% 5.6K 1%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	
IC1707 8-759-113-13 IC1708 8-759-113-13 IC1709 8-759-145-58 IC1710 8-759-145-58 IC1714 8-759-145-58	1C UPC1498H IC UPC1498H IC UPC4558C IC UPC4558C IC UPC4558C		R937 R938 R939 R940 R941	1-215-439-00 1-215-417-00 1-215-433-00 1-215-429-00 1-215-441-00	METAL METAL METAL METAL	5.6K 1% 680 1% 3.3K 1% 2.2K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
1C1715 8-759-145-58 1C1718 8-759-145-58	IC UPC4558C IC UPC4558C		R942 R943 R944 R945 R946	1-215-451-00 1-215-441-00 1-215-439-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL	18K 1% 6.8K 1% 5.6K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
			R947	1-215-439-00		5.6K 1%	1/4W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R949 R950 R951	1-215-447-00 1-215-439-00 1-215-429-00 1-215-429-00 1-215-429-00	METAL	12K 5.6K 2.2K 2.2K 2.2K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1714 R1715 R1716 R1717	1-249-411-11 1-249-411-11 1-215-886-11 1-249-411-11	CARBON CARBON METAL OXIDE CARBON CARBON	330 330 100 330	5% 5% 5% 5%	1/4W 1/4W 2W 1/4W 1/4W	F
R954 R955 R956 R957		METAL	5.6K 5.6K 3.9K 4.7K 6.8K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1719 R1720 R1721 R1722 R1723	1-249-411-11 1-215-886-11 1-249-417-11 1-249-417-11 1-214-792-00 1-249-417-11 1-249-417-11 1-249-417-11 1-249-417-11 1-215-886-11	METAL  CARBON  CARBON  CARBON  CARBON  CARBON	330 1K 330 1K	5% 5% 5% 5% 5%	1/2W 1/4W 1/4W 1/4W 1/4W	
R960 R961 R962	1-215-441-00	METAL METAL METAL METAL METAL	4.7K 5.6K 5.6K 5.6K 6.8K	1% 1%	1/4W 1/4W 1/4W		R1726 R1727	1-215-886-11 1-214-792-00	METAL OXIDE METAL	100 100 100 1	5% 5% 1% 1%	2W 2W 1/2W 1/2W	F F F
R965 R966 R967	1-215-421-00	METAL	1 K	1%	1/4W		R1732	1-249-405-11	CARBON	100 1K 100 100 100		1/2W 1/4W 1/4W 1/4W 1/4W 1/4W	
	1-249-421-11 1-215-909-11 1-249-421-11 1-249-431-11 1-249-431-11	METAL CARBON METAL OXIDE CARBON CARBON	2.2K 47 2.2K 15K	5% 5% 5% 5%	1/4W 3W 1/4W 1/4W	F	R1735 R1736 R1737 R1738	1-249-405-11 1-249-423-11 1-249-423-11 1-249-423-11	CARBON CARBON CARBON CARBON	100 3.3K 3.3K 3.3K 3.3K		1/4W 1/4W 1/4W 1/4W 1/4W	
R974 R975 R976 R977	1-215-399-00 1-215-399-00 1-215-399-00 1-215-399-00	METAL METAL METAL METAL	120 120 120 120 120	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W		R1740 R1741 R1742 R1743	1-249-405-11 1-249-405-11 1-249-423-11 1-249-423-11 1-249-423-11 1-249-423-11 1-249-423-11 1-249-423-11 1-249-423-11 1-249-417-11 1-249-417-11 1-249-417-11 1-249-405-11	CARBON CARBON CARBON CARBON	1K 3.3K	5% 5%	1/4W 1/4W 1/4W 1/4W	
R979 R980 R981 R982	1-215-399-00 1-215-399-00 1-249-431-11	METAL METAL METAL CARBON	120 120 120 120 15K	1% 1% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W		R1745 R1746 R1747 R1748	1-249-405-11 1-214-792-00 1-215-886-11 1-215-421-00	CARBON METAL METAL OXIDE METAL	100 1 100 1K	5% 1% 5% 1%	1/4W 1/4W 1/2W 2W 1/4W	F
R984 R985 R986 R987	1-215-421-00	METAL METAL METAL METAL METAL	3.3 3.3 3.3 1K	1% 1% 1% 1%	1/4W 1/2W 1/2W 1/2W 1/4W		R1749 R1750 R1751 R1752 R1753	1-249-425-11 1-249-417-11 1-249-411-11 1-214-792-00 1-215-886-11 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-431-00 1-215-437-00 1-215-437-00	METAL METAL METAL METAL METAL	1 K 1 K 1 K 1 K 1 K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W	
R989 R990 R991 R992	1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00	HE I HE	110	1/8	1/ 4W		R1758	1-215-437-00	METAL	4.7K	1% 1%% 1%% 1%% 1%% 5%	1/4W 1/4W 1/4W	
R993 R994 R995 R997 R998	1-249-429-11 1-249-429-11 1-215-457-00 1-215-463-00 1-215-409-00	CARBON CARBON METAL METAL METAL	10K 10K 33K 56K 330	5% 5% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1759 R1760 R1761 R1762 R1763	1-249-405-11 1-249-427-11 1-249-419-11 1-215-445-00 1-249-427-11	CARBON CARBON CARBON METAL CARBON	100 6.8K 1.5K 10K 6.8K	5% 5% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R999 R1701 R1702 R1703 R1704	1-215-455-00 1-249-411-11 1-249-427-11 1-249-427-11 1-249-411-11	METAL CARBON CARBON CARBON CARBON	27K 330 6.8K 6.8K 330	1% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1764 R1765 R1766 R1767 R1768	1-249-419-11 1-249-419-11 1-249-427-11 1-249-427-11 1-249-439-11	CARBON CARBON CARBON CARBON CARBON	1.5K 1.5K 6.8K 6.8K 68K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1705 R1706 R1707 R1708 R1709	1-249-411-11 1-249-427-11 1-249-411-11 1-249-427-11 1-249-427-11	CARBON CARBON CARBON CARBON CARBON	330 6.8K 330 6.8K 6.8K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1769 R1770 R1771 R1772 R1773	1-215-445-00 1-249-405-11 1-249-405-11 1-215-429-00 1-215-429-00	METAL CARBON CARBON METAL METAL	10K 100 100 2.2K 2.2K	1% 5% 5% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1710 R1711 R1712 R1713	1-249-411-11 1-249-411-11 1-249-427-11 1-215-886-11	CARBON CARBON CARBON METAL OXIDE	330 330 6.8K 100	5% 5% 5% 5%	1/4W 1/4W 1/4W 2W	F	R1774 R1775 R1776	1-215-421-00 1-249-429-11 1-215-421-00	METAL Carbon	1K 10K 1K	1% 5% 1%	1/4W 1/4W 1/4W	



REF.NO. PART NO.					REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R1777 1-249-423-11 R1778 1-215-421-00 R1779 1-215-898-11 R1780 1-214-804-11 R1781 1-214-804-11 R1782 1-215-898-11 R1783 1-214-804-11 R1784 1-215-898-11 R1785 1-215-898-11 R1786 1-214-804-11 R1787 1-214-804-11 R1788 1-249-433-11 R1790 1-249-433-11 R1790 1-249-433-11 R1790 1-249-433-11 R1791 1-249-429-11 R1792 1-215-445-00 R1793 1-249-405-11 R1794 1-215-429-00 R1795 1-249-405-11 R1796 1-249-405-11 R1797 1-249-405-11 R1798 1-249-405-11 R1800 1-215-439-00 R1801 1-215-439-00 R1802 1-215-439-00 R1803 1-215-439-00 R1806 1-249-405-11 R1807 1-249-405-11 R1808 1-215-439-00 R1808 1-215-439-00 R1808 1-215-439-00 R1809 1-214-792-00 R1811 1-214-792-00 R1812 1-214-792-00 R1813 1-214-792-00 R1814 1-249-431-11 R1817 1-247-885-00 R1818 1-249-405-11 R1819 1-215-437-00 R1820 1-215-437-00 R1821 1-215-437-00 R1821 1-215-437-00 R1821 1-215-437-00 R1822 1-215-437-00 R1823 1-215-445-00	CARBON METAL METAL OXIDE METAL METAL	3.3K 1K 10K 3.3 3.3	5% 1% 5% 1%	1/4W 1/4W 2W 1/2W 1/2W	F	R1861 R1862 R1863 R1864 R1865	1-215-453-00 1-215-453-00 1-215-397-00 1-215-437-00 1-215-453-00	METAL METAL METAL METAL METAL	22K 22K 100 4.7K 22K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1782 1-215-898-11 R1783 1-214-804-11 R1784 1-214-804-11 R1785 1-215-898-11 R1786 1-214-804-11	METAL OXIDE METAL METAL METAL OXIDE METAL	10K 3.3 3.3 10K 3.3	5% 1% 1% 5% 1%	2W 1/2W 1/2W 2W 1/2W	F	R1866 R1867 R1868 R1869 R1870	1-215-453-00 1-215-437-00 1-215-439-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	22K 4.7K 5.6K 10K 10K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1787 1-214-804-11 R1788 1-249-433-11 R1789 1-249-441-11 R1790 1-249-433-11 R1791 1-249-429-11	METAL CARBON CARBON CARBON CARBON	3.3 22K 100K 22K 10K	1% 5% 5% 5% 5%	1/2W 1/4W 1/4W 1/4W 1/4W		R1871 R1872 R1873 R1874 R1875	1-215-445-00 1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00	METAL METAL METAL METAL METAL	10K 4.7K 4.7K 4.7K 4.7K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1792 1-215-445-00 R1793 1-249-405-11 R1794 1-215-429-00 R1795 1-249-433-11 R1796 1-249-405-11	METAL CARBON METAL CARBON CARBON	10K 100 2.2K 22K 100	1% 5% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1876 R1877 R1878 R1879 R1880	1-215-437-00 1-215-437-00 1-215-475-00 1-215-475-00 1-215-475-00	METAL METAL METAL METAL METAL	4.7K 4.7K 180K 180K 180K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1797 1-249-429-11 R1798 1-249-423-11 R1800 1-249-405-11 R1801 1-215-439-00 R1802 1-215-439-00	CARBON CARBON CARBON METAL METAL	10K 3.3K 100 5.6K 5.6K	5% 5% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1881 R1882 R1883 R1884 R1885	1-215-461-00 1-215-445-00 1-215-453-00 1-215-397-00 1-215-445-00	METAL METAL METAL METAL METAL	10K 22K 100 10K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1803 1-215-439-00 R1805 1-215-439-00 R1806 1-249-405-11 R1807 1-249-405-11 R1808 1-214-792-00	METAL METAL CARBON CARBON METAL	5.6K 5.6K 100 100	1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/2W		R1886 R1887 R1888 R1889 R1890	1-215-445-00 1-215-397-00 1-215-461-00 1-215-457-00 1-215-457-00	METAL METAL METAL METAL METAL	10K 100 47K 33K 33K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1809 1-214-792-00 R1810 1-214-792-00 R1811 1-214-792-00 R1812 1-214-792-00 R1813 1-214-792-00	METAL METAL METAL METAL METAL	1 1 1 1 1	1% 1% 1% 1%	1/2W 1/2W 1/2W 1/2W 1/2W		R1891 R1892 R1894 R1895 R1896	1-215-445-00 1-215-445-00 1-215-429-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	10K 2.2K 10K 10K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1814 1-249-431-11 R1815 1-247-885-00 R1816 1-249-431-11 R1817 1-247-885-00 R1818 1-249-405-11	CARBON CARBON CARBON CARBON	15K 180K 15K 180K 100	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1897 R1898 R1899 R1900 R1901	1-215-445-00 1-215-445-00 1-215-421-00 1-215-429-00 1-215-449-00	METAL METAL METAL METAL METAL	15K 10K 1K 2.2K 15K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1819 1-215-437-00 R1820 1-215-437-00 R1821 1-215-437-00 R1822 1-215-445-00 R1823 1-215-445-00	METAL METAL METAL METAL	4.7K 4.7K 4.7K 10K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1902 R1903 R1904 R1905 R1906	1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-429-00	METAL METAL METAL METAL METAL	10K 10K 10K 10K 2.2K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1824 1-215-433-00 R1825 1-215-433-00 R1826 1-215-433-00 R1827 1-215-445-00 R1828 1-215-445-00	METAL METAL METAL METAL METAL	3.3K 3.3K 3.3K 10K 10K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1907 R1908 R1909 R1910 R1911	1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-453-00	METAL METAL METAL METAL METAL	10K 10K 10K 10K 22K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1829 1-249-434-11 R1830 1-249-434-11 R1831 1-249-405-11 R1832 1-215-471-00 R1833 1-215-471-00	CARBON CARBON CARBON METAL METAL	27K 27K 100 120K 120K	1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1920 R1921 R1922 R1924	1-215-423-00 1-215-453-00 1-215-445-00 1-215-445-00 1-215-429-00	METAL METAL METAL	1.2K 22K 10K 10K 2.2K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1834 1-215-471-00 R1835 1-215-437-00 R1836 1-215-437-00 R1837 1-215-421-00 R1838 1-249-431-11	METAL METAL METAL METAL CARBON	120K 4.7K 4.7K 1K 15K	1% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1926 R1927 R1928 R1929	1-215-429-00 1-215-429-00 1-215-445-00 1-215-421-00 1-215-445-00	METAL METAL METAL METAL METAL	2.2K 2.2K 10K 1K 10K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1839 1-249-431-11 R1858 1-215-445-00 R1859 1-215-445-00 R1860 1-215-397-00	CARBON METAL METAL METAL	15K 10K 10K 100	5% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W		R1930 R1931 R1932	1-215-397-00 1-215-397-00 1-215-453-00	METAL METAL METAL	100 100 22K	1% 1% 1%	1/4W 1/4W 1/4W	



_	REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	<b>(</b>		REMARK
	R1934	1-215-453-00 1-215-429-00 1-215-445-00	METAL METAL METAL	22K 1% 1/4W 2.2K 1% 1/4W 10K 1% 1/4W		RV961	1-241-630-11 1-241-631-11	RES, ADJ, C	ARBON 22K		
			IABLE RESISTUR	R>		RV962 RV963 RV964	1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CARES, ADJ, CARES, ADJ, CARES	ARBON 22K Arbon 22K Arbon 22K Arbon 22K		
	RV902 RV903	1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	RBON 22K RBON 22K RBON 22K RBON 22K		RV966 RV967 RV968	1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CARES, A	ARBON 22K ARBON 22K ARBON 22K		
	RV905 RV906	1-241-631-11	RES, ADJ, CAF	RBON 22K RBON 22K		RV969 RV970 RV971	1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CARES, ADD, CARES, A	ARBON 22K ARBON 22K ARBON 22K		
	RV908 RV909	1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	RBON 22K RBON 22K RBON 22K RBON 22K		RV972 RV973 RV974	1-241-631-11 1-241-631-11	RES, ADJ, CARES, A	ARBON 22K ARBON 22K ARBON 22K ARBON 22K		
	RV911 RV912 RV913	1-241-627-11 1-241-631-11 1-238-023-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	RBON 1K RBON 22K RBON 470K		RV976	1-241-631-11	RES, ADJ, C	ARBON 22K Arbon 22K		
	RV915	1-241-630-11 1-241-630-11 1-241-631-11	RES, ADJ, CAI	RBON 10K RBON 10K RBON 22K		RV978 RV979 RV980 RV981	1-241-631-11 1-241-631-11 1-238-019-11 1-241-631-11	RES, ADJ, C. RES, ADJ, C. RES, ADJ, C. RES, ADJ, C.	ARBON 22K Arbon 22K Arbon 47K Arbon 22K		
	RV917 RV918 RV919	1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI	RBON 22K RBON 22K RBON 22K		RV982	1-241-631-11	RES, ADJ, C	ARBON 22K		
	RV921	1-241-631-11 1-241-631-11	RES, ADJ, CAI	RBON 22K RBON 22K		*****	************ *1-644-278-11	**************************************	*********	******	*****
	RV923	1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	RBON 22K			<cap< td=""><td>********* ACITOR&gt;</td><td></td><td></td><td></td></cap<>	********* ACITOR>			
	RV926 RV927 RV928 RV929 RV930	1-241-631-11 1-241-631-11 1-241-630-11 1-241-631-11 1-241-630-11	RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI	RBON 22K RBON 10K RBON 22K RBON 10K		1 (1750	1-126-101-11 1-126-101-11 1-126-101-11 1-126-101-11 1-124-916-11	ELECT	100MF 100MF 22MF	20% 20% 20% 20%	16V 16V 16V 16V 25V
	RV931 RV932 RV933 RV934 RV935	1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CAI	RBON 22K RBON 22K RBON 22K RBON 22K RBON 22K		C1751 C1752 C1753 C1851	1-126-101-11 1-124-916-11 1-124-916-11 1-102-074-00	ELECT BLECT ELECT CERAMIC	100MF 22MF 22MF 0.001MF	20% 20% 20% 10%	16V 25V 25V 50V
	RV937	1-241-631-11 1-241-630-11	RES, ADJ, CA	RBON 10K		1		NECTOR>		D) 40B	
	RV938 RV939 RV940	1-241-630-11 1-241-630-11 1-241-631-11	RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA	RBON 10K		DS6	1-691-182-11		BUARD TU BUAR	U) 12P	
	RV941 RV942	1-241-631-11 1-241-631-11	RES, ADJ, CA	RBON 22K		101711	<1C> 8-759-111-69	IC UPC1037H	A		
	RV943 RV944 RV945	1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CARES, ADJ, CARES, ADJ, CARES, ADJ, CAR	RBON 22K RBON 22K			8-759-602-19 8-759-111-69		A		
	RV946 RV947	1-241-631-11 1-241-631-11	RES, ADJ, CA RES, ADJ, CA	RBON 22K		B1040		ISTOR>	101/ 19/	1 (40)	
	RV948 RV949 RV950	1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA	RBON 22K		R1841 R1842	1-215-445-00 1-215-433-00 1-215-465-00	METAL METAL	10K 1% 3.3K 1% 68K 1%	1/4W 1/4W 1/4W	
	RV951 RV952		RES, ADJ, CA	RBON 22K		R1844	1-215-421-00 1-215-455-00	METAL	68K 1X 1K 1X 27K 1X	1/4W 1/4W	
	RV953 RV954 RV956	1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA	RBON 22K		R1846	1-215-461-00	NETAL NETAL	27K 1% 1K 1% 47K 1% 47K 1%	1/4W 1/4W 1/4W	
	RV957 RV958 RV959	1-241-631-11 1-241-631-11 1-241-631-11		RBON 22K		R1852	1-215-461-00 1-215-429-00 1-215-397-00	METAL METAL	47K 1% 2.2K 1% 100 1%	1/4W 1/4W 1/4W	

DS	H1	H2

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R1855 R1940 R1941	1-215-433-00	METAL METAL	2.2K 100 10K 3.3K 1K	1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	-	i	<b>*</b> 1-643-592-11	H2 BOARD				
	1-215-465-00	METAL		1%	1/4W			<cap.< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td></cap.<>	ACITOR>				
R1944 R1945	1-215-421-00 1-215-455-00	METAL METAL METAL	1K 27K 27K	1% 1% 1%	1/4W 1/4W 1/4W			1-124-477-11 1-124-927-11		47MF 4.7MF		20% 20%	16V 50V
	<var< td=""><td>IABLE RESISTOR</td><td><b>&gt;</b> .</td><td></td><td></td><td></td><td></td><td><dio< td=""><td></td><td></td><td></td><td></td><td></td></dio<></td></var<>	IABLE RESISTOR	<b>&gt;</b> .					<dio< td=""><td></td><td></td><td></td><td></td><td></td></dio<>					
RV984	1-241-630-11 1-241-630-11	RES, ADJ, CAR	BON 10	K	******	*****	D1652 D1653	8-719-908-03 8-719-908-03 8-719-108-12 8-719-108-12 8-719-108-12	DIODE GPOSD DIODE RD9.1E- DIODE RD9.1E-	W			
	*1-643-591-11	H1 BOARD					D1659 D1660	8-719-911-19 8-719-110-88	DIODE 188119 DIODE RD39ES-	-B2			
	4-033-777-01 *4-374-987-01 4-381-686-01	HOLDER, LED GUIDE, LIGHT	LIGHT	GUIDE			D1661 D1662	8-719-110-88 8-719-110-88 8-719-110-88	DIODE RD39ES- DIODE RD39ES-	·B2 ·B2			
	< CAD	ACITOR>						<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td></con<>	NECTOR>				
C1601	1-124-907-11		10MF		20%	50V	H22 H25	*1-564-519-41 *1-564-517-41	PLUG, CONNECT	OR 4P			
C1602 C1603		ELECT ELECT	TOMF TOMF TOMF		20% 20% 20% 20%	50V 50V 50V	H26 H28	*1-564-519-11 *1-564-518-11 *1-564-517-11	PLUG, CONNECT PLUG, CONNECT	OR 4P			
	<di0< td=""><td>DE&gt;</td><td></td><td></td><td></td><td></td><td>H216 H225</td><td>*1-564-525-11 *1-564-518-11</td><td>PLUG, CONNECT PLUG, CONNECT</td><td>OR 10P</td><td></td><td></td><td></td></di0<>	DE>					H216 H225	*1-564-525-11 *1-564-518-11	PLUG, CONNECT PLUG, CONNECT	OR 10P			
	8-719-812-41 8-719-812-41							<jac< td=""><td>v.</td><td></td><td></td><td></td><td></td></jac<>	v.				
D1002							J1651	1-695-817-11		IN 3P			
		NECTOR>											
	*1-564-526-11 *1-564-517-41						Q1651	<tra 8-729-119-78</tra 	NSISTOR> TRANSISTOR 25	C2785-	HFR		
	<1C>						Q1652 Q1653	8-729-119-78 8-729-119-78	TRANSISTOR 29	C2785-	HFE		
IC1601	8-741-148-33	IC SBX1483-59	)					<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td>R1651</td><td>1-249-419-11</td><td>CARBON</td><td>1.5K</td><td>5%</td><td>1/4W</td><td></td></res<>	ISTOR>					R1651	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1602 R1603	1-249-430-11 1-249-425-11 1-249-421-11	CARBON CARBON CARBON	12K 4.7K 2.2K	5% 5% 5% 5%	1/4W 1/4W 1/4W		R1652 R1653 R1654 R1655	1-249-421-11 1-249-425-11 1-249-430-11 1-249-417-11	CARBON CARBON CARBON CARBON	2.2K 4.7K 12K 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R1604 R1606	1-249-419-11 1-249-405-11	CARBON CARBON	1.5K 100	5% 5%	1/4W 1/4W		R1656	1-249-417-11 1-249-436-11	CARBON CARBON	1K	5%	1/4W	
R1607 R1608 R1609	1-249-405-11 1-249-411-11 1-249-411-11	CARBON CARBON CARBON	100 330 330	5% 5% 5%	1/4W 1/4W 1/4W		R1657 R1658 R1659	1-249-437-11 1-249-437-11	CARBON CARBON	39K 47K 47K	5% 5% 5% 5%	1/4W 1/4W 1/4W	
	<swi< td=""><td>TCH&gt;</td><td></td><td></td><td></td><td></td><td></td><td><rel< td=""><td>AY&gt;</td><td></td><td></td><td></td><td></td></rel<></td></swi<>	TCH>						<rel< td=""><td>AY&gt;</td><td></td><td></td><td></td><td></td></rel<>	AY>				
	1-554-303-21	SWITCH, TACTI						1-515-586-11 1-515-586-11					,
\$1602 \$1603 \$1604 \$1605	1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, TACTI SWITCH, TACTI SWITCH, TACTI SWITCH, TACTI	L L				, C1/F1		TCH>	11			
State of the state	. 1-571-731-21 ********	CONTROL WATER BUILDING WATER BOARD AND	Control of the Contro	H-P-B-P-Ban-Built	*****	******	\$1651 \$1652 \$1653 \$1654	1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, TACT SWITCH, TACT SWITCH, TACT	IL IL			

H2 ZR ZG ZB N

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

	JL						-			***************************************	
REF.NO. PART NO	. D	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
S1655 1-554-3	03-21 SW	VITCH, TACTIL				ZB20	*1-691-292-11	PIN, CONNECT	OR (PC BOARD	) 3P	
*********	******	***********	*****	******	*******	*****	**********	********	********	*****	*******
*A-1390-		BOARD, COMPL					*A-1390-351-A	N BOARD, COM			
	<capaci< td=""><td></td><td></td><td></td><td></td><td></td><td>4-039-042-01 4-382-854-11 4-383-023-01</td><td>SCREW (M3X10</td><td>), P. SW (+)</td><td></td><td></td></capaci<>						4-039-042-01 4-382-854-11 4-383-023-01	SCREW (M3X10	), P. SW (+)		
C1901 1-162-1 C1902 1-162-1			OPF OPF	10% 10%	2KV 2KV		<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td></cap<>	ACITOR>			
	<resist< td=""><td>OR&gt;</td><td></td><td></td><td></td><td>C801</td><td>1-125-489-00</td><td></td><td>560MF</td><td>20%</td><td>200V</td></resist<>	OR>				C801	1-125-489-00		560MF	20%	200V
R1901 1-202-8 R1902 1-202-8 R1903 1-249-4 R1904 1-249-4	18-00 SO 14-11 CA	ARBON 5	K 2	0% 1/2 0% 1/2 1/4 7 1/4	d d	C802 C803 C804 C805	1-123-024-21 1-136-729-11 1-106-383-00 1-102-030-00	FILM Mylar	33MF 1.5MF 0.047MF 330PF	5% 10%	160V 400V 200V 500V
K1704 1 247 4			,00 ,	76 17 T	•	C806 C807	1-130-495-00 1-123-875-11	ELECT	0.1MF 10MF	5% 20%	50V 50V
	<connec< td=""><td></td><td></td><td></td><td></td><td>C808 C809</td><td>1-126-183-11 1-124-903-11</td><td>ELECT ELECT</td><td>1000MF 1MF</td><td>20% 20%</td><td>16V 50V</td></connec<>					C808 C809	1-126-183-11 1-124-903-11	ELECT ELECT	1000MF 1MF	20% 20%	16V 50V
ZR1 *1-564-5 ZR2 *1-564-5	22-11 PL 18-11 PL	JUG, CONNECTOR	1 7P 1 3P			C810		BLECT	1MF	20%	50V
ZR18 *1-691-2	92-11 PI	N, CONNECTOR	(PC BO	ARD) 3P		C811 C812	1-124-902-00 1-102-973-00		0.47MF 100PF	20% 5%	50V 50V
********	******	*********	*****	******	*******			CERAMIC MYLAR	220PF 0.1MF	10% 10%	500V 200V
*A-1390-		BOARD, COMPL				C815	1-106-367-00	MYLAR	0.01MF	10%	200V
						C816 C817	1-124-907-11 1-124-119-00	ELECT ELECT	10MF 330MF	20% 20%	50V 16V
	<capaci< td=""><td>TOR&gt;</td><td></td><td></td><td></td><td>C818 C819</td><td>1-102-824-00 1-124-907-11</td><td>CERAMIC ELECT</td><td>470PF 10MF</td><td>5% 20%</td><td>50V 50V</td></capaci<>	TOR>				C818 C819	1-102-824-00 1-124-907-11	CERAMIC ELECT	470PF 10MF	5% 20%	50V 50V
C1911 1-162-1 C1912 1-162-1			OPF OPF	10% 10%	2KV 2KV	C820	1-124-907-11	ELECT	10MF	20%	50 <b>v</b>
01712 1 102 1	13 00 65	Mineric )	101 I	10%	21.1	C821 C822	1-124-907-11 1-124-034-51	ELECT	10MF 33MF	20% 20%	50V 16V
	<resist< td=""><td>ror&gt;</td><td></td><td></td><td></td><td>C823</td><td>1-124-907-11</td><td>ELECT</td><td>10MF</td><td>20%</td><td>50V</td></resist<>	ror>				C823	1-124-907-11	ELECT	10MF	20%	50V
R1911 1-202-8			K 2	20% 1/2	Ų	C824 C825	1-124-034-51 1-124-034-51	ELECT ELECT	33MF 33MF	20% 20%	16 <b>V</b> 16 <b>V</b>
R1912 1-202-8 R1913 1-249-4	14-11 CA	ARBON	K 2	30% 1/2 5% 1/4 5% 1/4	N C	C826	1-124-907-11		10MF	20%	50V
R1914 1-249-4	14-11 CA	ARBON	560 5	1/4	al	C827 C828	1-124-907-11 1-124-907-11	ELECT	10MF 10MF	20% 20%	50V 50V
	<connec< td=""><td>CTOR&gt;</td><td></td><td></td><td></td><td>C829 C830</td><td>1-124-034-51 1-124-907-11</td><td>ELECT ELECT</td><td>33MF 10MF</td><td>20% 20%</td><td>16V 50V</td></connec<>	CTOR>				C829 C830	1-124-034-51 1-124-907-11	ELECT ELECT	33MF 10MF	20% 20%	16V 50V
		UG, CONNECTOR				C831	1-106-220-00		0.1MF	10%	100V
ZG19 *1-691-2						C832 C833	1-124-907-11 1-124-916-11	ELECT ELECT	10MF 22MF	20% 20%	50V 50V
*******				******	*******	C834 C835	1-102-121-00 1-12 <b>4</b> -927-11	CERANIC ELECT	0.0022MF 4.7MF	10% 20%	50 V 50 V
*A-1390-		3 BOARD, COMPI ********				C836	1-130-475-00	MYLAR	0.0022MF		50V
						C837 C838	1-136-169-00	FILM Mylar	0.22MF 0.0022MF	5% 5% 5%	50V 50V
	<capaci< td=""><td></td><td></td><td></td><td></td><td>C839</td><td>1-102-106-00 1-136-807-11</td><td>CERAMIC</td><td>100PF</td><td>10% 3%</td><td>50<b>V</b> 1.6KV</td></capaci<>					C839	1-102-106-00 1-136-807-11	CERAMIC	100PF	10% 3%	50 <b>V</b> 1.6KV
C1921 1-162-1 C1922 1-162-1	15-00 CE 15-00 CE		30PF 30PF	10% 10%	2KV 2KV	C841	1-136-729-11	FILM	1.5MF	5%	400V
						C842 C844	1-130-471-00 1-106-391-12		0.001MF 0.1MF	5% 10%	50V 200V
	<resist< td=""><td>ror&gt;</td><td></td><td></td><td></td><td>C850 C851</td><td>1-136-169-00 1-124-907-11</td><td>FILM ELECT</td><td>0.22MF 10MF</td><td>5% 20%</td><td>50V 50V</td></resist<>	ror>				C850 C851	1-136-169-00 1-124-907-11	FILM ELECT	0.22MF 10MF	5% 20%	50V 50V
R1921 1-202-8 R1922 1-202-8	18-00 SC		IK 2	20% 1/2 20% 1/2	W	C852	1-124-907-11	ELECT	10MF	20%	50V
R1923 1-249-4 R1924 1-249-4	14-11 CA	ARBON !	560 5	7 1/4 7 1/4	W	C853 C854	1-106-220-00 1-126-329-11	MYLAR ELECT	0.1MF 470MF	10% 20%	100V 50V
	01				•	C855 C856	1-124-514-11 1-162-114-00	ELECT CERAMIC	100MF 0.0047MF	20%	50V 2KV
	<connec< td=""><td>CTOR&gt;</td><td></td><td></td><td></td><td>C858</td><td>1-124-119-00</td><td>ELECT</td><td>330MF</td><td>20%</td><td>2AV 16V</td></connec<>	CTOR>				C858	1-124-119-00	ELECT	330MF	20%	2AV 16V
ZB3 *1-564-5	24-11 Pl	LUG, CONNECTO	9P	*		C888	1-124-903-11		1MF	20%	50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
	<010	DE>			<trai< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td></trai<>	NSISTOR>				
D801 D802 D803 D804 D805		DIODE ERD28-08S DIODE RU-1C DIODE RD5.1ES-B2 DIODE 1SS119 DIODE 1SS119		Q801 <b>∆</b> Q802 Q803 Q804 Q805	8-729-201-61 8-729-119-80 8-729-119-76 8-729-119-78 8-729-119-78	TRANSISTOR 25	C2688-1 A1175-1 C2785-1	LK HFE HFE	- ; · · · · · · · · · · · · · · · · · ·	
D806 D807 D808 D809 D810	8-719-109-85 8-719-109-85 8-719-911-19 8-719-911-19 8-719-911-19	DIODE RD5.1ES-B2 DIODE RD5.1ES-B2 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		Q806 Q807 Q808 Q809 Q811	8-729-119-80 8-729-119-78 8-729-119-78 8-729-119-76 8-729-808-07	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	5C2785-1 5C2785-1 5A1175-1	HFE HFE HFE		
D811 D812 D813 D814 D815	8-719-109-85 8-719-911-19 8-719-911-19 8-719-911-19 8-719-110-36	DIODE RD5.1ES-B2 DIODE 1SS119 DIODE 1SS119 DIODE ISS119 DIODE RD13ES-B2		Q812 Q820 Q851 Q852 Q853	8-729-119-78	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	841175-1 802785-1 802785-1	HFE HFE HFE		
D817 D818	8-719-945-80 8-719-911-19 8-719-911-19	DIODE ERCO6-15S DIODE 1SS119 DIODE 1SS119			<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
D852 D851 A	8-719-109-71 8-719-903-09 8-719-911-19	DIODE RD3.9ES-B1 DIODE V30N  DIODE 1SS119 DIODE 1SS119 DIODE V30N DIODE RD18ES-B2		R801 R802 R803 R804 R805	1-216-378-11 1-215-926-00 1-215-926-00 1-249-429-11 1-249-423-11	METAL OXIDE METAL OXIDE METAL OXIDE CARBON CARBON	5.6 33K 33K 10K 3.3K	5555555	2W 3W 3W 1/4W 1/4W	7 7
D891 D892	8-719-110-49 <1C>	DIODE RD18ES-B2		R806 R807 R808 R809 R810	1-249-425-11 1-249-441-11 1-249-417-11 1-249-417-11 1-249-441-11	CARBON CARBON CARBON CARBON CARBON	4.7K 100K 1K 1K 100K	555555555555555555555555555555555555555	1/4W 1/4W 1/4W 1/4W 1/4W	
I C801 I C802 I C803 I C804 I C805	8-759-103-93	1C TA7812S 1C UPC393C 1C TL082CP 1C UPC393C 1C UPC1394C		R811 R812 R813 R814 R815	1-249-421-11 1-249-420-11 1-215-921-11 1-249-409-11 1-249-415-11	CARBON CARBON METAL OXIDE CARBON CARBON	2.2K 1.8K 4.7K 220 680	5% 5% 5% 5%	1/4W 1/4W 3W 1/4W 1/4W	F F
	<c0i< td=""><td>L&gt;</td><td></td><td>R816 R817</td><td>1-214-777-00 1-215-471-00</td><td>METAL METAL</td><td>100K 120K</td><td>1% 1%</td><td>1/4W 1/4W</td><td>÷</td></c0i<>	L>		R816 R817	1-214-777-00 1-215-471-00	METAL METAL	100K 120K	1% 1%	1/4W 1/4W	÷
L801 L802 L803 L804	1-424-603-11 1-459-313-00 1-410-482-31	COIL, CHOKE 90UH COIL, CHOKE 1.05MMH COIL WITH CORE (HWC) INDUCTOR 100UH		R818 R819 R820	1-215-471-00 1-215-450-00 1-215-451-00	METAL METAL METAL	120K 16K 18K	1% 1% 1%	1/4W 1/4W 1/4W	
L805 A	gaga, populari Andrian (P. Lai (S. Sant, 2002) (Sch.) Americano (patricio esta esta 10°°) (100°).	COIL, CHOKE F. OSMME		R821 R822 R823	1-249-423-11 1-249-433-11 1-249-429-11	CARBON CARBON CARBON	3.3K 22K 10K	5% 5% 5%	1/4W 1/4W 1/4W	
N1		INECTOR> PIN, CONNECTOR 3P		R824 R825	1-215-469-00 1-215-453-00	METAL METAL	100K 22K	1% 1%	1/4W 1/4W	
N2 N3 N4 N5	*1-564-508-11 *1-508-766-00 *1-564-507-11 *1-564-508-11	PLUG, CONNECTOR 5P PIN, CONNECTOR (5MM PITCH) 4P PLUG, CONNECTOR 4P PLUG, CONNECTOR 5P		R826 R827 R828 R829 R830	1-214-962-00 1-214-764-00 1-215-455-00 1-215-455-00 1-215-928-11	METAL METAL	820K 30K 27K 27K 68K	1% 1% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W 3W	F
N6 N7 N8 N9 N10	*1-508-766-00 1-506-348-99	PIN, CONNECTOR (5MM PITCH) 2P PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 4P PIN, CONNECTOR 3P PLUG, CONNECTOR 8P		R831 R832 R833 R834 R835	1-215-928-11 1-249-417-11 1-249-419-11 1-249-419-11 1-215-429-00	METAL OXIDE CARBON CARBON CARBON	68K 1K 1.5K 1.5K 2.2K	5% 5% 5%	3W 1/4W 1/4W 1/4W 1/4W	F '
N20 N21 N30 N851 N853	*1-560-123-00 *1-508-784-00 *1-506-371-00	PLUG, CONNECTOR (2.5MM) 6P PLUG, CONNECTOR (2.5MM) 3P PIN, CONNECTOR (5MM PITCH) 1P PIN, CONNECTOR 2P PIN, CONNECTOR 2P		R836 R837 R838 R839 R840	1-215-435-00 1-249-433-11 1-249-435-11 1-249-438-11 1-249-434-11	METAL CARBON CARBON CARBON	3.9K 22K 33K 56K 27K	1% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
	<nec< td=""><td>ON LAMP&gt;</td><td></td><td>R841 R842</td><td>1-249-429-11 1-249-435-11</td><td>CARBON</td><td>10K 33K</td><td>5% 5% 5%</td><td>1/4W 1/4W</td><td></td></nec<>	ON LAMP>		R841 R842	1-249-429-11 1-249-435-11	CARBON	10K 33K	5% 5% 5%	1/4W 1/4W	
NL801	1-519-108-99	LAMP, NEON		R843	1-249-423-11	CARBON	3.3K	5%	1/4W	

N S

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO. PART NO. DESCRIPTION	REMARK
R844 R845 R846 R847 R848	1-249-433-11 1-249-435-11 1-249-429-11 1-214-761-00 1-215-429-00	CARBON CARBON CARBON METAL METAL	22K 33K 10K 22K 2.2K	5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		<pre><transformer></transformer></pre>	
R849 R850	1-215-421-00 1-215-429-00	METAL METAL	1K 2.2K	1% 1%	1/4W 1/4W		7803 ▲ 1-453-121-11 TRANSFORMER ASSY, FLYBACK (1	ATTER WATER BROWN DESCRIPTION OF THE PROPERTY
R851 <b>⊠</b> R852 <i>A</i>	1-215-404-00	METAL METAL METAL	200	1%	1/4W 1/4W		*A-1394-421-A S BOARD, COMPLETE	
R853 R854	1-249-430-11		100K 12K		1/4W		**************************************	
R855 R856 R857 R858	1-215-469-00 1-249-430-11 1-249-433-11 1-249-413-11	METAL CARBON CARBON CARBON	100K 12K 22K 470	5% 1% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		<capacitor></capacitor>	
R859 R860 R861 R862 R863	1-249-435-11 1-249-441-11 1-249-421-11 1-249-434-11 1-249-431-11	CARBON CARBON CARBON	33K 100K 2.2K 27K 15K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3403 1-164-161-11 CERAMIC CHIP 0.0022MF 107 C3408 1-164-232-11 CERAMIC CHIP 0.01MF 107 C3409 1-124-477-11 ELECT 47MF 207 C3411 1-124-034-51 ELECT 33MF 207 C3442 1-164-161-11 CERAMIC CHIP 0.0022MF 107	50V 16V 16V
R864 R865 R866 R867 R868	1-249-423-11 1-249-440-11 1-249-436-11 1-249-437-11	CARBON	3.3K 82K 39K 47K 8.2K		1/4W 1/4W 1/4W 1/4W 1/4W		C3446 1-163-129-00 CERAMIC CHIP 330PF 5% C3447 1-163-117-00 CERAMIC CHIP 100PF 5% C3448 1-163-023-00 CERAMIC CHIP 0.015MF 10% C3449 1-164-182-11 CERAMIC CHIP 0.0033MF 10% C3450 1-163-109-00 CERAMIC CHIP 47PF 5%	
R869 R870 R871 R872 R873	1-249-429-11 1-249-417-11	CARBON CARBON	10K 1K 82K 3.3K 100K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3451 1-164-004-11 CERAMIC CHIP 0.1MF 107 C3452 1-163-989-11 CERAMIC CHIP 0.033MF 107 C3453 1-124-477-11 ELECT 47MF 207 C3454 1-126-162-11 ELECT 3.3MF 207 C3455 1-126-163-11 ELECT 4.7MF 207	25V 16V 50V
R874 R875 R876 R877 R878	1-249-435-11 1-249-421-11 1-215-426-00 1-249-435-11 1-249-441-11	CARBON	33K 2.2K 1.6K 33K 100K	5% 5% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3456 1-163-129-00 CERAMIC CHIP 330PF 5% C3457 1-163-117-00 CERAMIC CHIP 100PF 5% C3459 1-124-477-11 BLECT 47MF 200 C3460 1-163-099-00 CERAMIC CHIP 18PF 5% C3461 1-163-099-00 CERAMIC CHIP 18PF 5%	50V 50V 16V 50V 50V
R879 R880 R881 R882 R883	1-216-489-11 1-249-429-11 1-214-761-00 1-249-433-11 1-249-417-11	METAL OXIDE CARBON METAL CARBON CARBON	27K 10K 22K 22K 1K	5% 5% 1% 5% 5%	3W 1/4W 1/4W 1/4W 1/4W	F	C3507 1-164-232-11 CERAMIC CHIP 0.01MF 105 C3508 1-164-005-11 CERAMIC CHIP 0.47MF C3509 1-163-139-00 CERAMIC CHIP 820PF 5% C3515 1-163-121-00 CERAMIC CHIP 150PF 5% C3540 1-126-157-11 ELECT 10MF 205	25V 50V 50V
R884 R885 R886 R887 R888	1-215-894-11 1-249-438-11 1-249-414-11 1-215-397-00 1-249-410-11	METAL OXIDE CARBON CARBON METAL CARBON	2.2K 56K 560 100 270	5% 5% 5% 1% 5%	2W 1/4W 1/4W 1/4W 1/4W	F	<diode> D3444 8-719-404-46 DIODE MA110</diode>	
R889 R890 R891 R892 R893	1-249-417-11 1-249-417-11 1-216-489-11 1-249-417-11 1-215-453-00	CARBON CARBON METAL OXIDE CARBON METAL	1K 1K 27K 1K 22K	5% 5% 5% 1%	1/4W 1/4W 3W 1/4W 1/4W	F	<tc>  IC3401 8-759-403-44 IC MN1280-S IC3402 8-759-070-42 IC M37201M6-A18FP IC3441 8-759-982-21 IC RC78L05A IC3442 8-759-084-12 IC LA7945</tc>	
R894 R895 R896 R897 R898	1-249-401-11 1-202-731-00 1-260-111-11 1-247-881-00 1-202-730-00	CARBON SOLID CARBON CARBON SOLID	47 10M 10K 120K 8-2M	5% 20% 5% 5% 20%	1/4W 1/2W 1/2W 1/4W 1/4W		IC3443 8-759-158-03 IC LC7458A-02 IC3444 8-759-403-44 IC MN1280-S <coil></coil>	
R899 R903 R904 R905	1-249-429-11 1-247-735-11 1-215-928-11 1-215-911-11		10K 47 68K 100	5% 20% 5% 5%		F F	L3401 1-408-421-00 INDUCTOR 100UH L3461 1-408-409-00 INDUCTOR 10UH L3462 1-408-421-00 INDUCTOR 100UH	
	<spa< td=""><td>RK GAP&gt;</td><td></td><td></td><td></td><td></td><td><transistor></transistor></td><td></td></spa<>	RK GAP>					<transistor></transistor>	
SG801	1-519-422-11						Q3441 8-729-422-27 TRANSISTOR 2SD601A-Q Q3444 8-729-903-10 TRANSISTOR FMW1	



REF.NO. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTÍON			REMARK
40	Paramon,					*****	******	******	********	******	******
	ESISTOR>  O METAL GLAZE	1 K	59	1/10W			*A-1394-422-A	U BOARD, COM			
R3402 1-216-049-0 R3403 1-216-073-0	O METAL GLAZE	1K 10K	5% 5% 5%	1/10W 1/10W 1/10W		1		*****	****		
R3404 1-216-033-0 R3405 1-216-057-0	O METAL GLAZE	220 2.2K	5% 5%	1/10W 1/10W		1	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td></cap<>	ACITOR>			
R3406 1-216-065-0		4.7K	5%	1/10W		C1005	1-102-125-00 1-126-301-11	ELECT	0.0047MF 1MF	10% 20%	50V 50V
R3407 1-216-033-0 R3408 1-216-065-0	O METAL GLAZE	220 4.7K	5% 5% 5%	1/10W 1/10W		C1007	1-164-096-11 1-124-598-11	ELECT	0.01MF 22MF	20%	50V 25V
R3409 1-216-033-0 R3441 1-216-025-0	O METAL GLAZE O METAL GLAZE	220 100	5% 5%	1/10W 1/10W		1	1-124-598-11 1-124-465-00	ELECT	22MF 0.47MF	20% 20%	25V 50V
R3442 1-216-041-0 R3443 1-216-041-0	O METAL GLAZE	470 470	5% 5%	1/10W 1/10W		C1011	1-124-465-00 1-124-465-00 1-124-465-00	ELECT	0.47MF 0.47MF	20% 20% 20%	50V 50V 50V
R3444 1-216-077-0 R3445 1-216-689-1	O METAL GLAZE  1 METAL GLAZE	15K 39K	5% 5% 5% 5%	1/10W 1/10W		C1013	1-102-125-00 1-126-163-11	CERAMIC BLECT	0.0047MF 4.7MF	10% 20%	50V 50V
R3446 1-216-085-0	O METAL GLAZE	33K		1/10W		C1016	1-126-163-11	ELECT	4.7MF	20%	50 <b>V</b>
R3449 1-216-073-0 R3450 1-216-057-0	O METAL GLAZE	10K 2.2K	5% 5%	1/10W 1/10W		C1020	1-126-301-11 1-124-242-00	ELECT	1MF 33MF	20% 20%	50V 25V
R3451 1-216-093-0 R3452 1-216-079-0 R3453 1-216-679-1	O METAL GLAZE	68K 18K 15K	5% 5%	1/10W 1/10W 1/10W			1-124-465-00 1-124-242-00		0.47MF 33MF	20% 20%	50V 25V
R3454 1-216-037-0		330		1/10W		C1026 C1027	1-102-949-00 1-102-949-00	CERAMIC CERAMIC	12PF 12PF	5% 5%	50V 50V
R3455 1-216-057-0 R3456 1-216-077-0	O METAL GLAZE O METAL GLAZE	2.2K 15K	5% 5% 5% 5%	1/10W 1/10W		C1028 C1029	1-124-242-00 1-124-282-00	ELECT ELECT	33MF 22MF	20% 20%	25V 16V
R3463 1-216-073-0 R3464 1-216-073-0	O METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W		C1030	1-124-478-11	ELECT	100MF	20%	25 <b>V</b>
R3465 1-216-073-0	O METAL GLAZE O METAL GLAZE	10K 56K	5% 5% 5%	1/100		C1031 C1033	1-102-963-00 1-124-598-11	CERAMIC ELECT	33PF 22MF	5% 20%	50V 25V
R3472 1-216-091-0 R3473 1-216-025-0 R3474 1-216-295-0	O METAL GLAZE	100 0	2% 5% 5%	1/10W 1/10W 1/10W		C1034 C1036	1-124-282-00 1-124-282-00 1-124-282-00	ELECT ELECT ELECT	22MF 22MF 22MF	20% 20% 20%	16V 16V 16V
R3504 1-216-057-0	O METAL GLAZE	2.2K	5% 5%	1/10W			1-124-478-11		100MF	20%	25V
R3509 1-216-049-0 R3511 1-216-025-0	O METAL GLAZE	1K 100	5% 5%	1/10W 1/10W		C1047 C1048	1-124-465-00 1-126-301-11	ELECT ELECT	0.47MF 1MF	20% 20%	50V 50V
R3512 1-216-059-0 R3513 1-216-059-0	O METAL GLAZE	2.7K 2.7K	5% 5% 5% 5%	1/10W 1/10W			1-124-598-11 1-124-465-00		22MF 0.47MF	20% 20%	25V 50V
R3514 1-216-059-0 R3519 1-216-049-0		2.7K		1/10W		C1055 C1056	1-124-589-11 1-124-499-11	ELECT ELECT	47MF 1MF	20% 20%	16V 50V
R3520 1-216-049-0 R3521 1-216-049-0	O METAL GLAZE	1 K 1 K 1 K	5% 5%	1/10W 1/10W 1/10W		C1057	1-124-499-11 1-124-768-11 1-124-499-11	ELECT	4.7MF 1MF	20% 20% 20%	50 V 50 V 50 V
R3525 1-216-295-0 R3526 1-216-073-0	O METAL GLAZE	0 10K	5% 5% 5%	1/10W 1/10W			1-124-499-11		IMF	20%	50V
R3528 1-216-295-0	O METAL GLAZE	0	5%	1/10W		C1062	1-124-499-11 1-102-129-00	CERAMIC	1MF 0.01MF	20% 10%	50V 50V
R3529 1-216-295-0 R3530 1-216-073-0	O METAL GLAZE	0 10K	5% 5% 5%	1/10W 1/10W		C1063 C1066	1-124-768-11 1-126-101-11	ELECT ELECT	4.7MF 100MF	20% 20%	50V 16V
R3531 1-216-073-0 R3532 1-216-073-0	OO METAL GLAZE OO METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W			∠DI C	ncu>			
R3535 1-216-033-0 R3537 1-216-295-0		220 0	5% 5%	1/10W 1/10W		[ CM1002	SBLC 1-466-162-31		:::TFR /CFR_	4)	
R3540 1-216-073-0		10K	5%	1/10W		0,11002			IBIBA (OIB	1,	
<(	CONNECTOR>					D1005	O1(0>				
	21 PIN, CONNECTO					D1005	8-719-110-36	DIODE RD13ES	S-B2		
\$45 *1-564-511-7 \$46 *1-564-506-1	71 PLUG, CONNECT	OR 8P				D1011 D1012	8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13ES DIODE RD13ES	5-B2		
	II PLUG, CONNECT						8-719-110-36				
<(	CRYSTAL>					D1017	8-719-110-36 8-719-110-36	DIODE RD13ES DIODE RD13ES	5-B2 5-B2		
X3401 1-577-082-1						D1019 D1020	8-719-110-36 8-719-109-66	DIODE RD13ES	5-B2		
X3441 1-577-364-1	LI VIBRATUR, CEI	(AMIC				D1021	8-719-109-66	DIODE RD3.3	SS-B2	•	



REF.NO. PART NO.	DESCRIPTION	I -		REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
D1022 8-719-109-66 <1C>	DIODE RD3.3E	ES-B2			R1059	1-249-405-11	CARBON	100 220 100K 220 4.7K	5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
IC1002 8-752-056-50 IC1011 8-759-145-57	IC CXA1545S IC UPC4557C				R1067 R1068 R1069	1-215-437-00 1-215-437-00 1-215-437-00 1-249-411-11	METAL METAL METAL CARRON	4.7K 4.7K 4.7K	1% 1% 1%	1/4W 1/4W 1/4W	
L1001 1-408-422-00 L1002 1-408-422-00	INDUCTOR INDUCTOR	120UH 120UH		•	R1071	1-249-431-11	CARBON	15K 15K	5% 5%	1/4W 1/4W	
<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R1077 R1078 R1079</td><td>1-249-418-11 1-249-418-11 1-249-405-11</td><td>CARBON CARBON CARBON</td><td>1.2K 1.2K 100</td><td>5% 5% 5%</td><td>1/4W 1/4W 1/4W</td><td></td></tra<>	NSISTOR>				R1077 R1078 R1079	1-249-418-11 1-249-418-11 1-249-405-11	CARBON CARBON CARBON	1.2K 1.2K 100	5% 5% 5%	1/4W 1/4W 1/4W	
Q1009 8-729-119-78 Q1010 8-729-119-78 Q1016 8-729-119-76 Q1017 8-729-119-76 Q1018 8-729-141-26	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SC2785-HFE 2SC2785-HFE 2SA1175-HFE 2SA1175-HFE 2SC3622A-LK			R1081 R1089 R1094 R1096	1-215-421-00 1-249-405-11 1-249-405-11 1-249-405-11	METAL CARBON CARBON CARBON CARBON	1K 100 100 100	1% 5% 5%	1/4W 1/4W 1/4W 1/4W	
C  C  C  C  C  C  C  C  C  C  C  C  C	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SA1175-HFE 2SA1175-HFE 2SA1175-HFE 2SC3622A-LK 2SC2785-HFE			R1110 R1116 R1118 R1121 R1133	1-249-405-11 1-249-441-11 1-249-441-11 1-249-441-11 1-249-405-11	CARBON CARBON CARBON CARBON CARBON	100 100K 470 100K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1/4W 1/4W 1/4W 1/4W	
01029 8-729-119-76 01030 8-729-119-78 01031 8-729-119-78 01032 8-729-119-76 01033 8-729-119-76	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SA1175-HFE 2SC2785-HFE 2SC2785-HFE 2SA1175-HFE 2SA1175-HFE			R1134 R1137 R1138 R1139 R1140	1-249-405-11 1-249-411-11 1-249-415-11 1-249-413-11 1-249-413-11	CARBON CARBON CARBON CARBON CARBON	100 330 680 470 470	55%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q1034 8-729-119-76	TRANSISTOR 2	2SA1175-HFE			R1141	1-249-413-11	CARBON	470 680	5% 5%	1/4W	
<res< td=""><td>SISTOR&gt;</td><td>221/ 5%</td><td>1 / 461</td><td></td><td>R1147 R1148</td><td>1-249-405-11</td><td>CARBON CARBON</td><td>100 100</td><td>5%</td><td>1/4W 1/4W</td><td></td></res<>	SISTOR>	221/ 5%	1 / 461		R1147 R1148	1-249-405-11	CARBON CARBON	100 100	5%	1/4W 1/4W	
R1011 1-249-435-11 R1012 1-249-434-11 R1013 1-249-417-11 R1014 1-249-441-11 R1015 1-249-425-11	VIIII	1.111 370	1/4W 1/4W 1/4W 1/4W		R1150 R1151 R1152	1-249-405-11 1-249-405-11 1-249-417-11	CARBON CARBON CARBON	100 100 1K	5% 5% 5%	1/4W 1/4W 1/4W	
R1016 1-249-441-11 R1017 1-249-405-11 R1018 1-249-427-11	CARBON CARBON	100K 5%			1	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td></con<>	NECTOR>				
R1018 1-249-427-11 R1019 1-249-427-11 R1023 1-249-405-11 R1026 1-249-425-11	CARBON CARBON CARBON	100K 5% 100 5% 6.8K 5% 6.8K 5% 100 5%	1/4W 1/4W 1/4W		U12 U13 U16 U22	1-573-300-11 1-573-300-11 *1-564-513-11 1-566-942-11	CONNECTOR, BO CONNECTOR, BO PLUG, CONNECT CONNECTOR, HIN	OR 10P	BOARD	18P	
R1028 1-249-434-11 R1029 1-249-435-11 R1030 1-249-417-11	CARBON CARBON CARBON	4.7K 5% 27K 5% 33K 5% 1K 5% 1K 5%	1/4W 1/4W 1/4W 1/4W		U23	*1-566-367-11 *1-564-506-11	CONNECTOR, H	NGE (R			
R1032 1-249-417-11  R1033 1-249-393-11  R1034 1-249-417-11  R1036 1-249-440-11  R1037 1-249-440-11  R1038 1-249-440-11	CARBON CARBON CARBON CARBON CARBON CARBON CARBON	1K 5% 10 5% 1K 5% 82K 5% 82K 5% 82K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F		**************************************		PLETE	*****	*****	******
R1043 1-249-417-11 R1046 1-249-413-11 R1048 1-249-405-11 R1050 1-249-405-11 R1051 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	1K 5% 470 5% 100 5% 1K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C1152 C1154 C1155 C1158 C1160	1-102-074-00 1-164-096-11 1-126-103-11 1-124-598-11 1-124-598-11	CERAMIC CERAMIC ELECT ELECT ELECT	0.001M 0.01MF 470MF 22MF 22MF	F	10% 20% 20% 20%	50V 50V 16V 25V 25V
R1052 1-249-413-11 R1054 1-249-405-11 R1055 1-249-413-11 R1056 1-249-405-11 R1057 1-249-441-11	CARBON CARBON CARBON CARBON CARBON	470 5% 100 5% 470 5% 100 5% 100K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C1161 C1164 C1165 C1166 C1167	1-124-598-11 1-126-103-11 1-126-301-11 1-126-301-11 1-126-301-11	ELECT ELECT ELECT ELECT ELECT	22MF 470MF 1MF 1MF 1MF		20% 20% 20% 20% 20%	25V 16V 50V 50V 50V

The components identified by shading and mark  $ilde{\mathbb{A}}$  are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.  The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
C1199	1-126-301-11 1-102-129-00 1-102-129-00	CERAMI C	1MF 0.01MF 0.01MF		20% 10% 10%	50V 50V 50V	<con< td=""><td>NECTOR&gt;</td><td></td></con<>	NECTOR>	
	<010	DE>					UT22 *1-566-941-11	CONNECTOR, HINGE (TAB) 30P CONNECTOR, HINGE (TAB) 18P	
D1158	8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13ES	-B2				1	**************************************	******
D1160	8-719-110-36 8-719-110-36	DIODE RD13ES DIODE RD13ES	-B2					CELLANEOUS *********	
D1164 D1165 D1166 D1167 D1168	8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13ES DIODE RD13ES	-B2 -B2 -B2				▲ 1-451-396-21 ▲ 1-452-443-13 ▲ 1-453-108-11	RESISTOR ASSY (HIGH-VOLTAGE) DEFLECTION YOKE (Y936PA) NECK ASSY, PICTURE TUBE(NA367) DC BLOCK, HIGH-VOLTAGE SPEAKER (13CM) (COAXIAL)	
D1169 D1170	8-719-110-36 8-719-110-36	DIODE RD13ES DIODE RD13ES	-B2 -B2				*1-555-110-00 1-561-306-00 1-574-590-31	CABLE, PIN JACK, PIN (F) LEAD ASSY, HIGH-VOLTAGE	
	<jac< td=""><td>K&gt;</td><td></td><td></td><td></td><td></td><td><b>▲</b> 1-696-002-12</td><td>CORD, POWER (WITH NOISE FILTER) PICTURE TUBE (SD-249 (G))</td><td></td></jac<>	K>					<b>▲</b> 1-696-002-12	CORD, POWER (WITH NOISE FILTER) PICTURE TUBE (SD-249 (G))	
J1005	1-537-187-11 1-573-970-11 1-695-049-11 1-695-054-11	JACK BLUCK.	PIN				V901 A.8-736-633-05 ■R900 A.	PICTURE TUBE (SD-249 (B)) PICTURE TUBE (SD-249 (R)) METAL FILM 1/4W	
J1007	1-573-970-11 1-573-969-11 1-573-969-11	BLOCK, (S) T JACK BLOCK, JACK BLOCK	PIN				MR901 A. MR902 A.	METAL FILM 1/4W METAL FILM 1/4W	****
		ISTOR>					ACCESSOR	IES AND PACKING MATERIALS	
R1164 R1165 R1166	1-249-403-11 1-247-895-00 1-247-895-00 1-247-895-00 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	68 470K 470K 470K 470K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		3-756-987-21 3-756-987-31	SHEET (STANDARD), PROTECTION MANUAL, INSTRUCTION MANUAL, INSTRUCTION (KP-41EXR96 MANUAL, INSTRUCTION (KP-41EXR96 JOINT	(C)) (U))
R1169 R1170 R1171	1-247-895-00 1-249-403-11 1-249-403-11 1-247-895-00 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	470K 68 68 470K 470K	5%	1/4W 1/4W 1/4W 1/4W 1/4W		*4-036-102-01 *4-036-106-01 *4-036-107-01 *4-036-108-01 *4-381-155-01	TRAY CUSHION (LOWER) (ASSY)	
R1174	1-247-804-11 1-247-895-00		75 470K	5% 5%	1/4W 1/4W		REM	IOTE COMMANDER	
R1176	1-247-895-00 1-247-804-11 1-247-895-00	CARBON CARBON CARBON	470K 75 470K	5% 5%	1/4W 1/4W 1/4W		1-693-114-21 9-902 719-01 9-998-214-01	COVER (FOR RM-Y112A)	
R1181 R1183	1-247-804-11 1-247-804-11	CARBON CARBON CARBON CARBON CARBON	470K 75 75 470K 470K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W			( )	
R1188 R1191	1-247-895-00 1-247-895-00 1-247-804-11 1-249-425-11 1-249-425-11	CARBON CARBON CARBON CARBON CARBON	470K 470K 75 4.7K 4.7K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W				·
R1194	1-249-425-11 1-249-425-11 1-249-426-11	CARBON CARBON CARBON	4.7K 4.7K 5.6K	5% 5% 5%	1/4W 1/4W 1/4W				
	<sw1< td=""><td>TCH&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td>٥</td></sw1<>	TCH>							٥
S1150	1-572-198-11	SWITCH, KEYE	BOARD						